SERVICE MANUAL

40inch ,46inch TFT-LCD TV/MONITOR

2006. 07 .28.

indtek
Innovative Next Display

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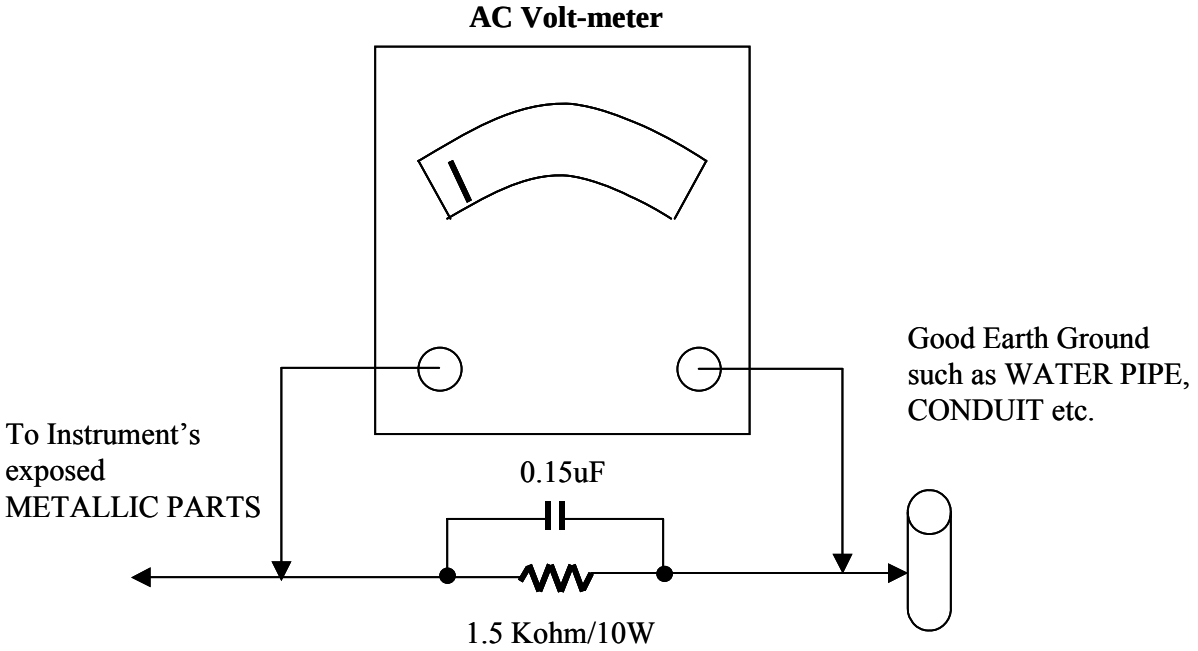
1. Safety Instructions

Important Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics.
These parts are identified by in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

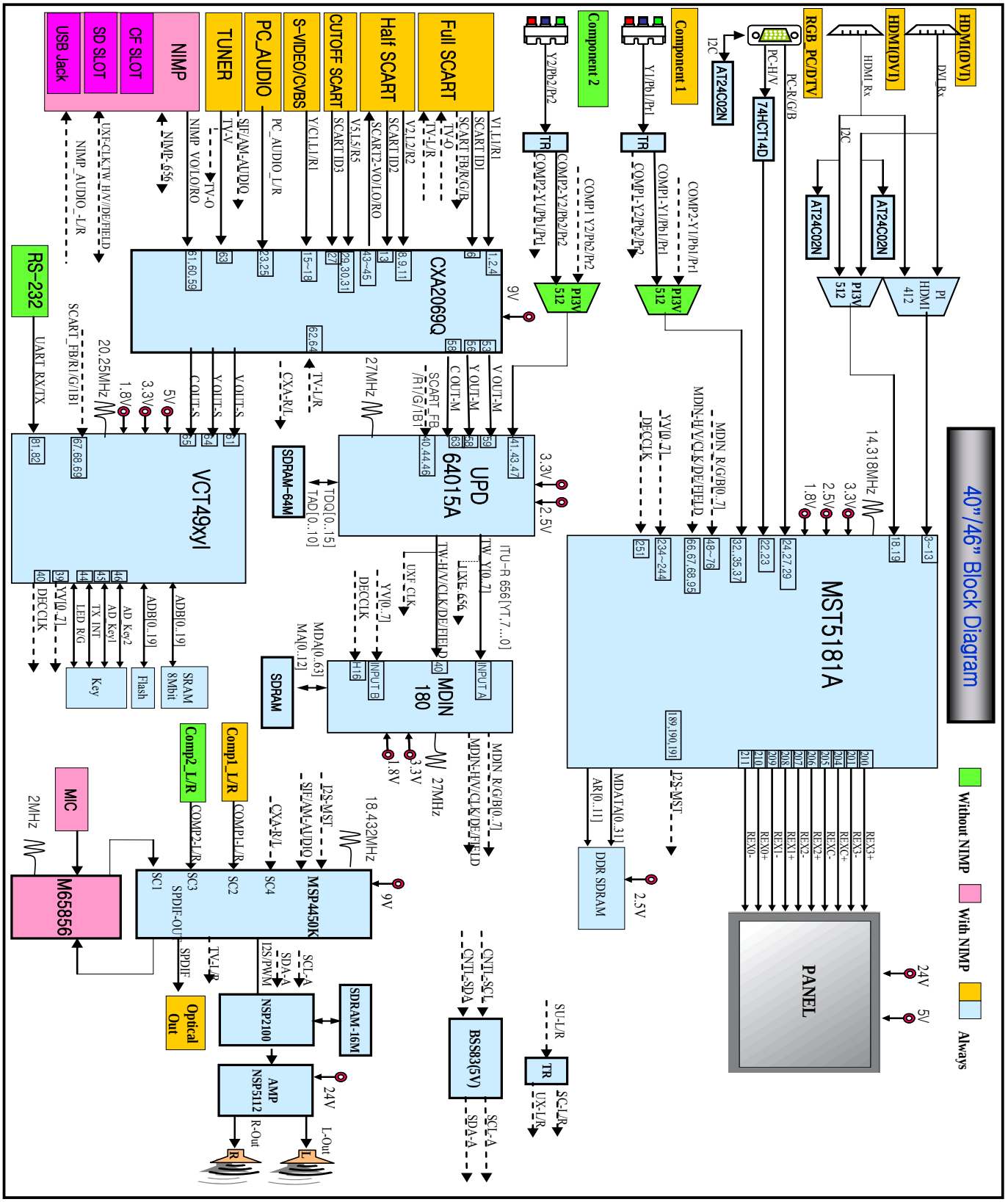
Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet. Do not use a line Isolation Transformer during this check. Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc) and the exposed metallic parts. Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity. Reverse plug of the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS, which is, corresponds to 0.5mA. In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

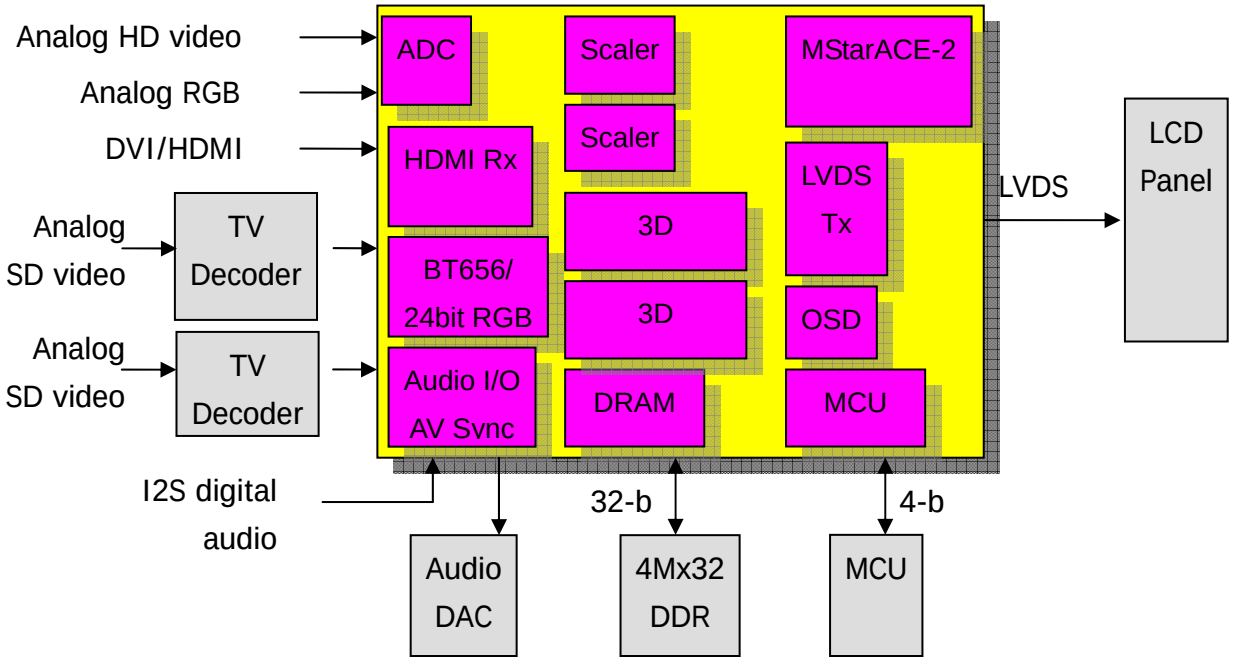


2. BLOCK DIAGRAM

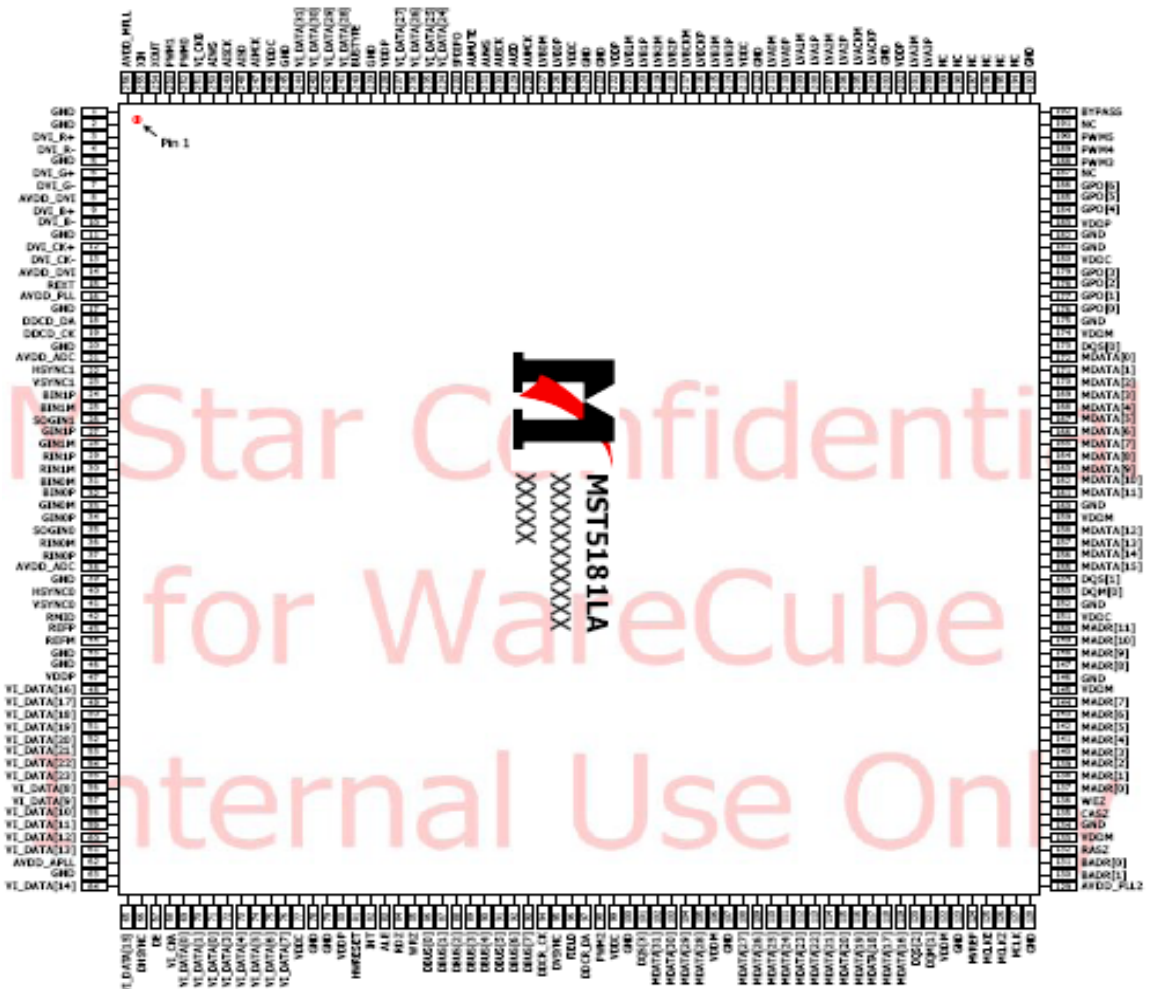
■ BLOCK DIAGRAM



■ IC FUNCTIONAL BLOCK DIAGRAM (MST5181LA)

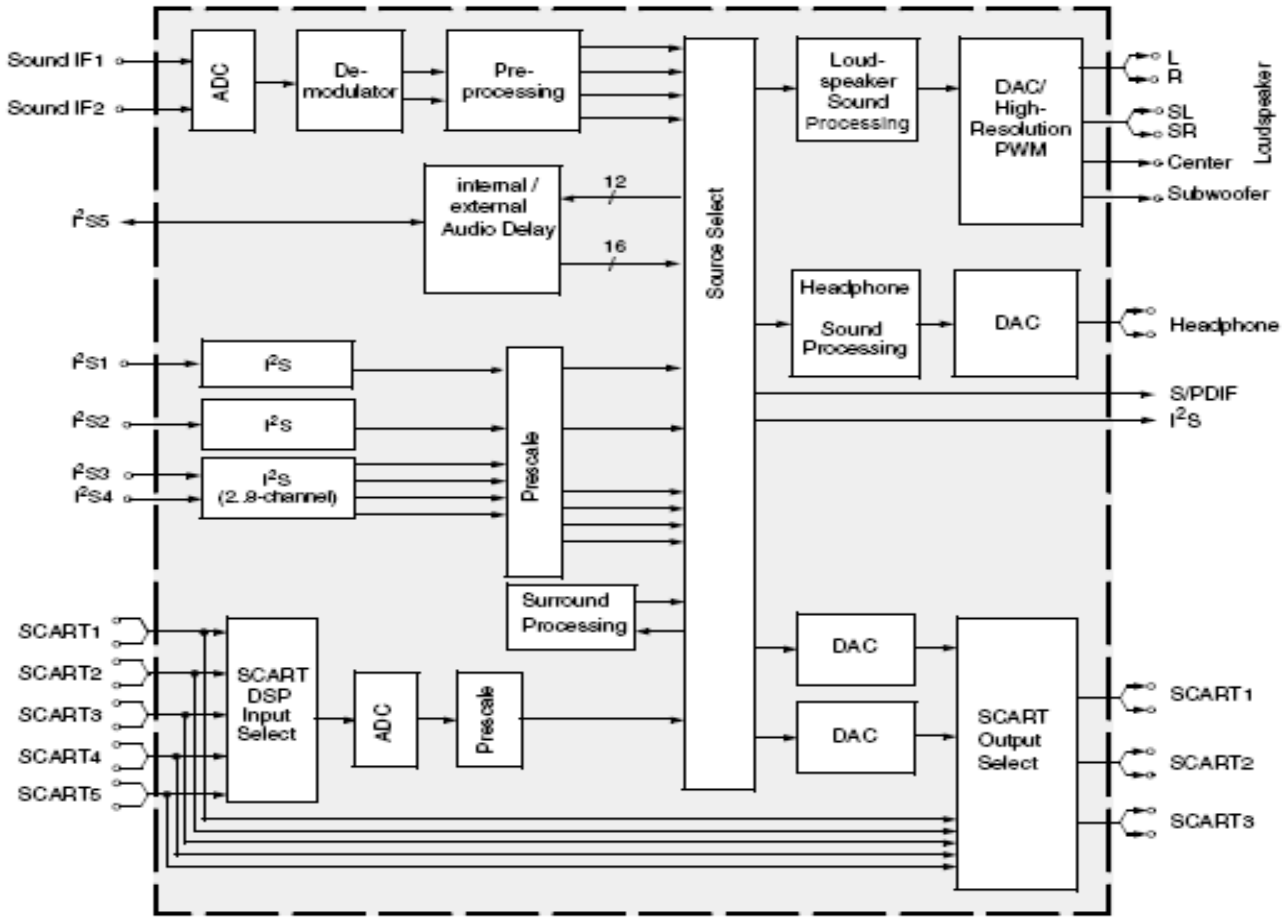


■ IC PIN ASSIGNMENT (MST58LA)

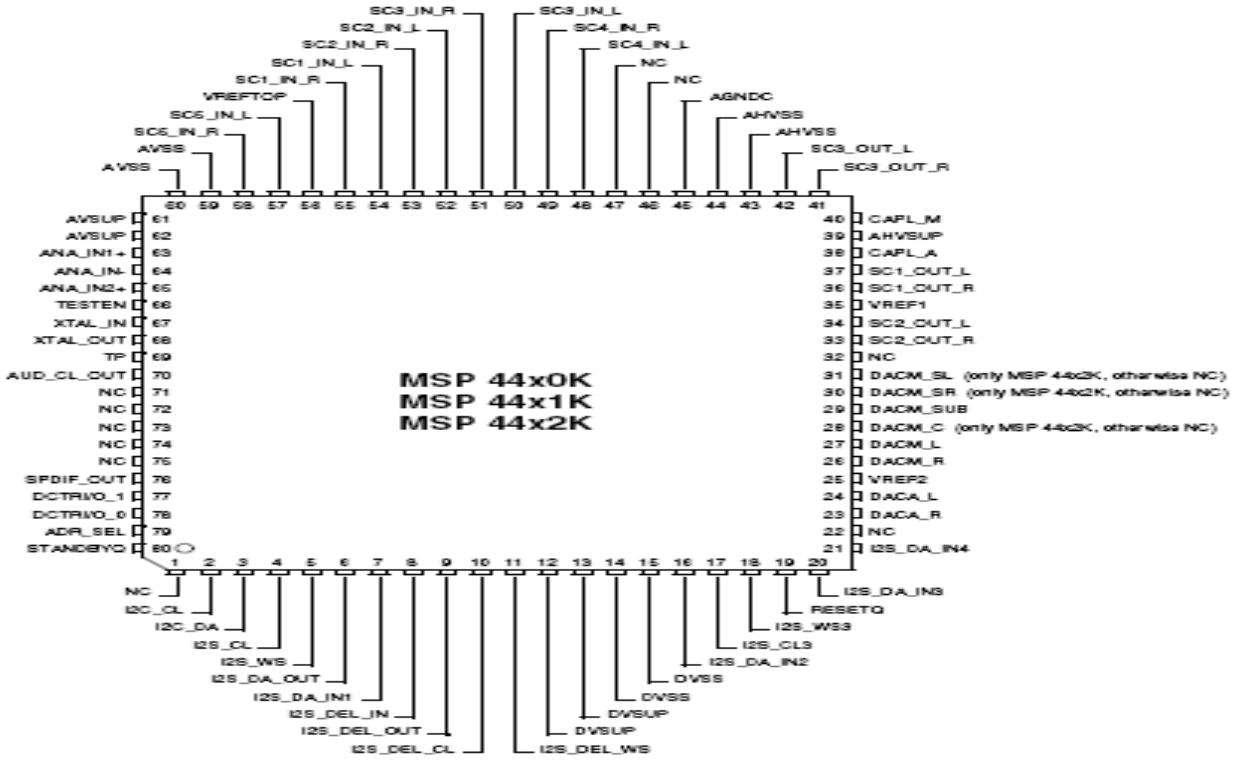


MStar Confidenti
for WaeCube
nternal Use On

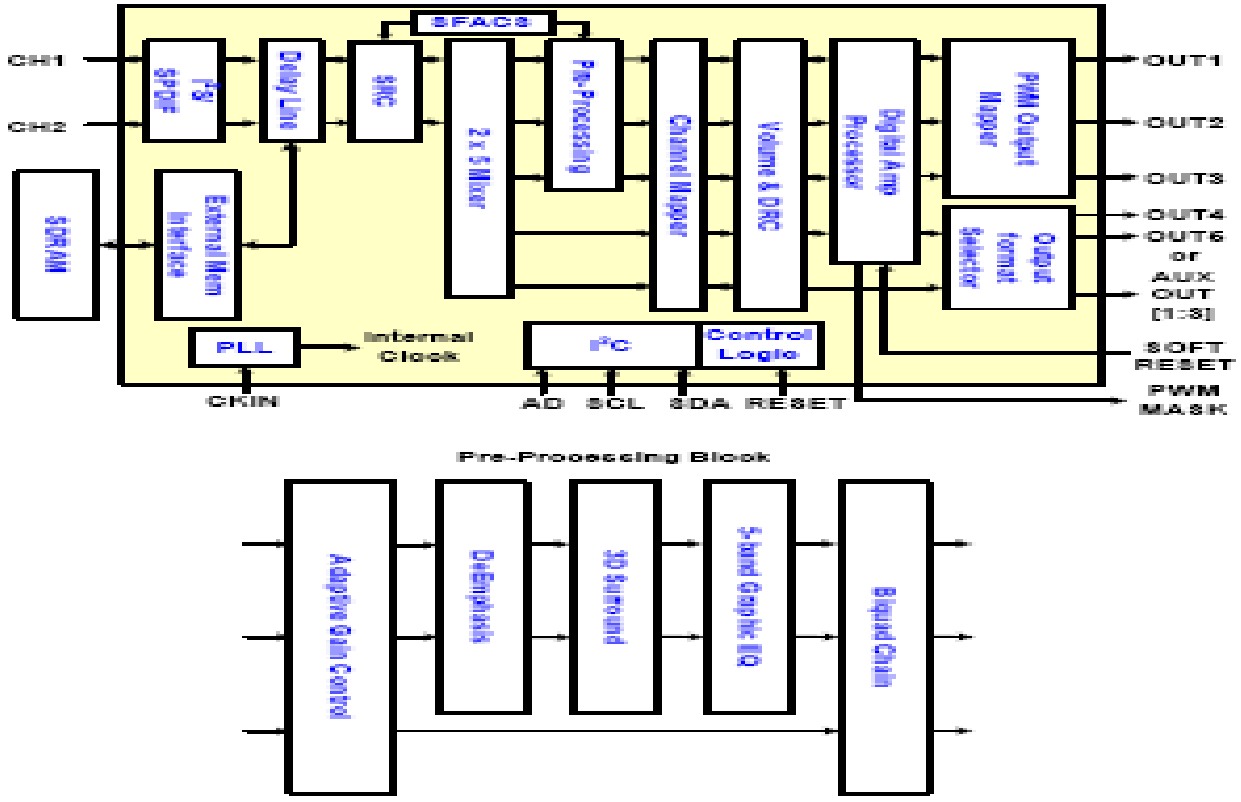
■ IC BLOCK DIAGRAM (MSP4450K)



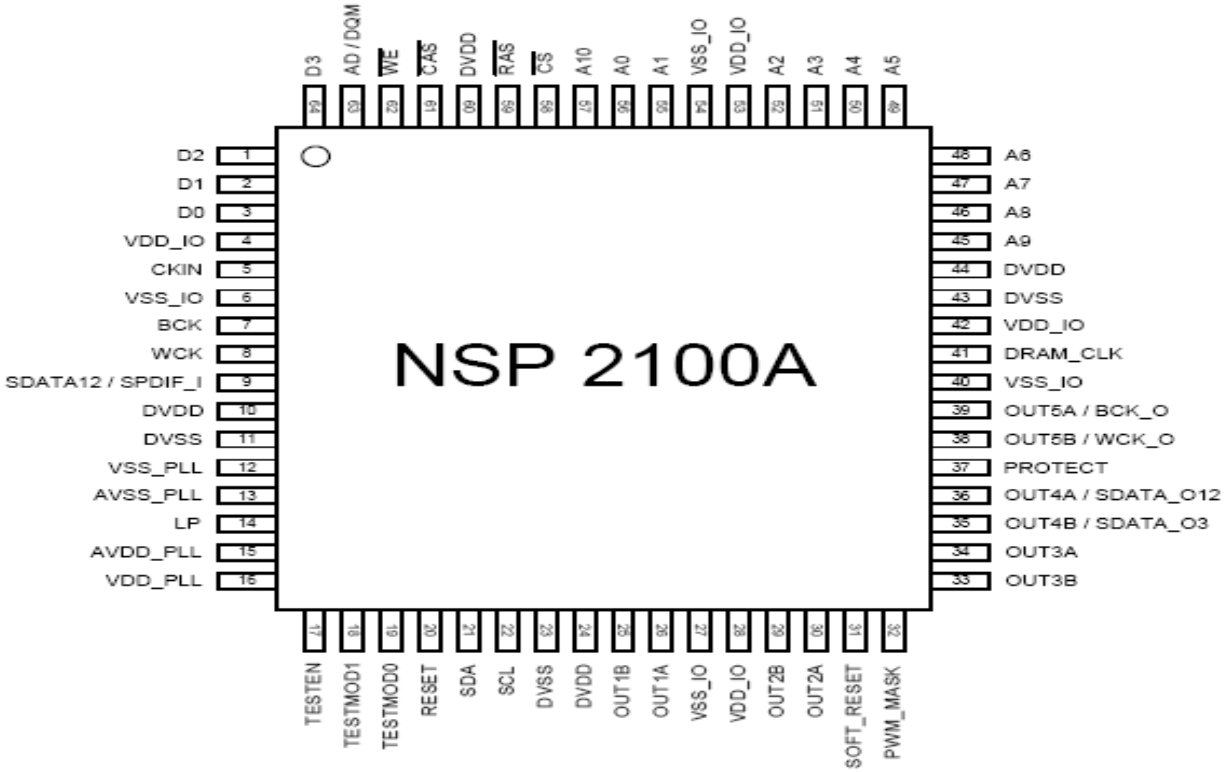
■ IC PIN OUT (MSP4450K)



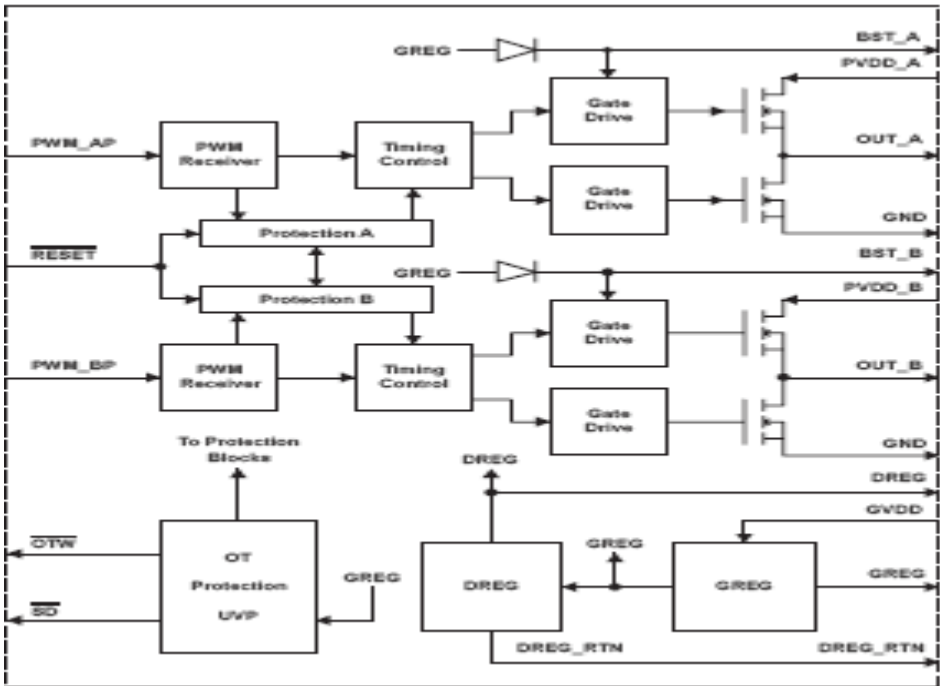
■ IC BLOCK DIAGRAM (NSP2100A)



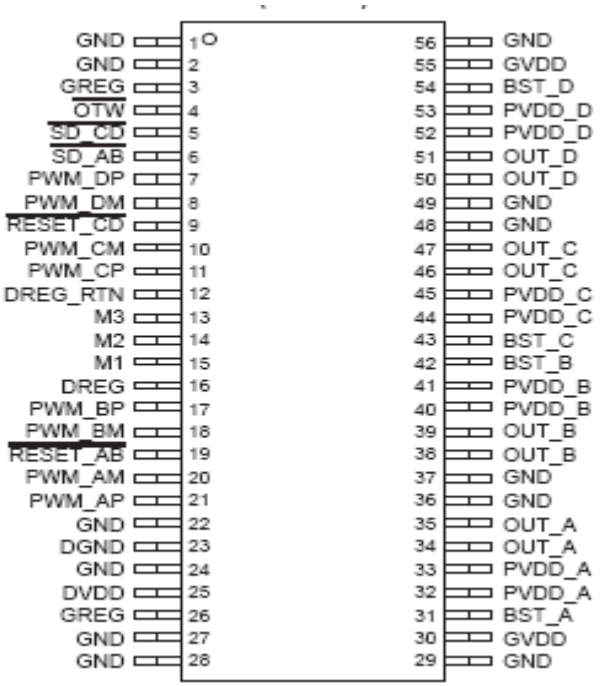
■ IC PIN OUT (NSP2100A)



■ IC BLOCK DIAGRAM (TAS5112)

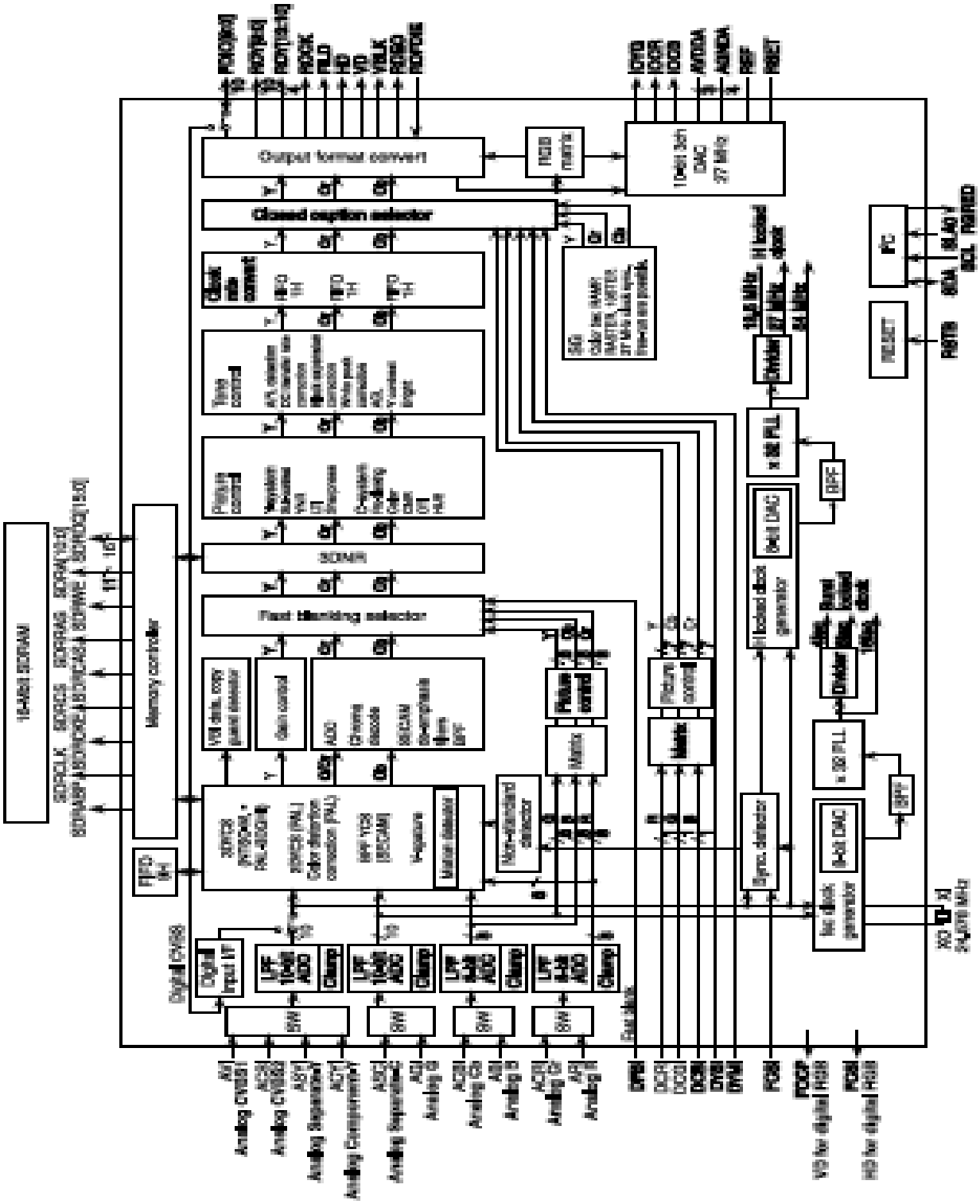


■ IC PIN OUT (TAS5112)

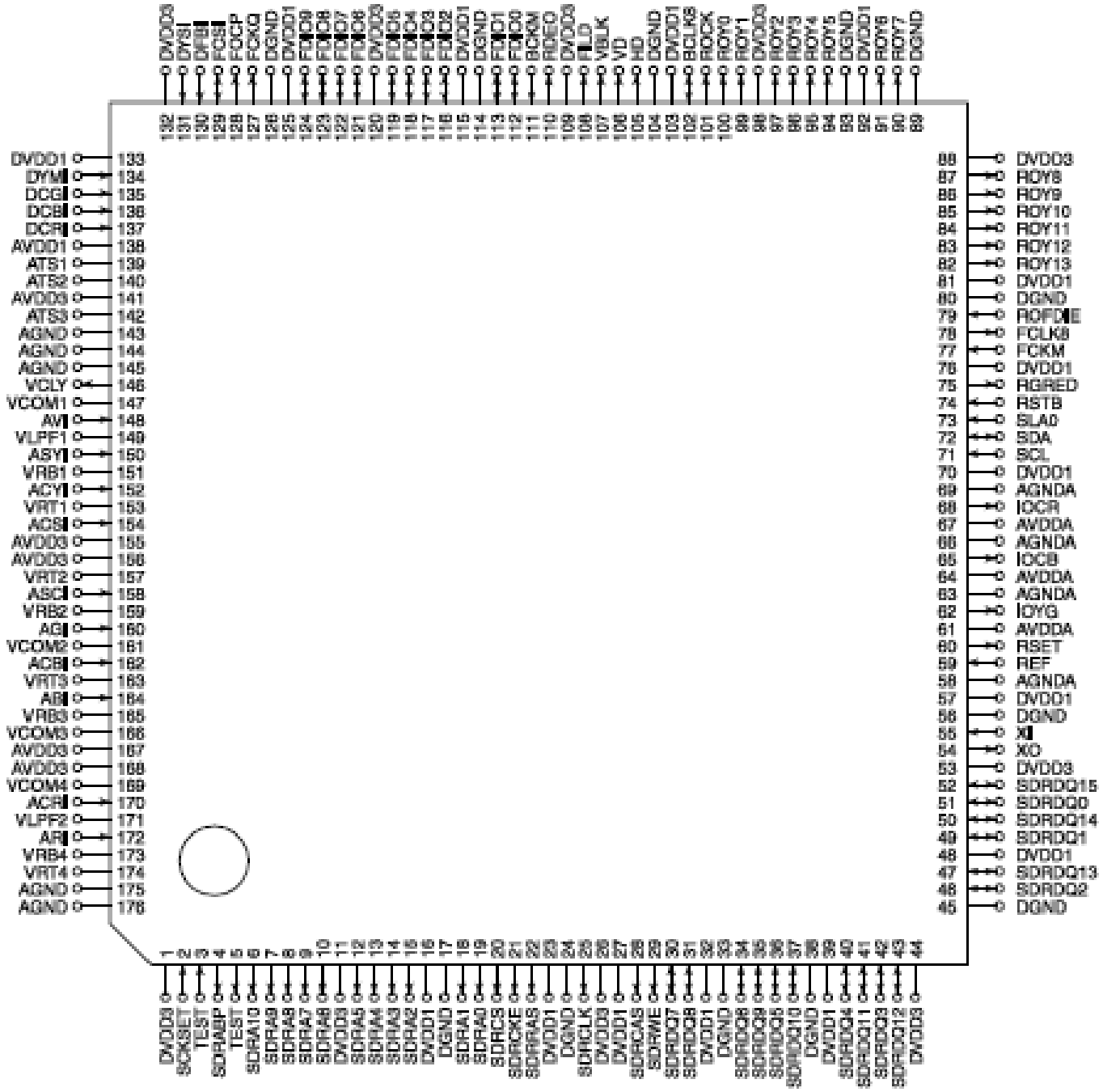


TAS5112	UNITS
DVDD TO DGND	–0.3 V to 4.2 V
GVDD TO GND	33.5 V
PVDD_X TO GND (dc voltage)	33.5 V
PVDD_X TO GND (spike voltage[2])	48 V
OUT_X TO GND (dc voltage)	33.5 V
OUT_X TO GND (spike voltage[2])	48 V
BST_X TO GND (dc voltage)	48 V
BST_X TO GND (spike voltage[2])	53 V
GREG TO GND [3]	14.2 V
PWM_XP, RESET, M1, M2, M3, SD, OTW	–0.3 V to DVDD + 0.3 V
Maximum operating junction temperature, T_J	–40°C to 150°C
Storage temperature	–40°C to 125°C

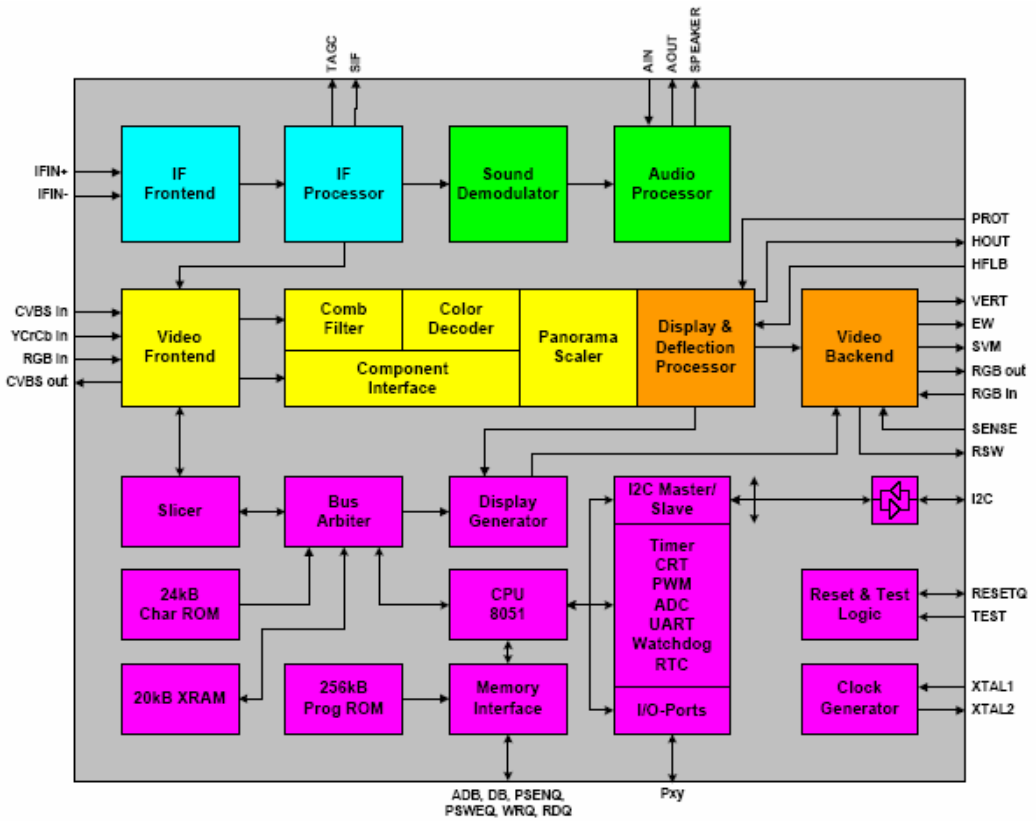
■ IC BLOCK DIAGRAM (UPD64015A)


Output format convert
Closed caption selector
Fast blanking selector
SDRAM
Memory controller
16MBit SDRAM
Digital CVBS
Digital input I/F
Analog CVBS1
Analog CVBS2
Analog Separate1
Analog Component
Analog Separate2
Analog I
Analog Q
Analog B
Analog R
Analog G
Analog B
Analog R
Analog G
Analog B
Analog R
Analog G

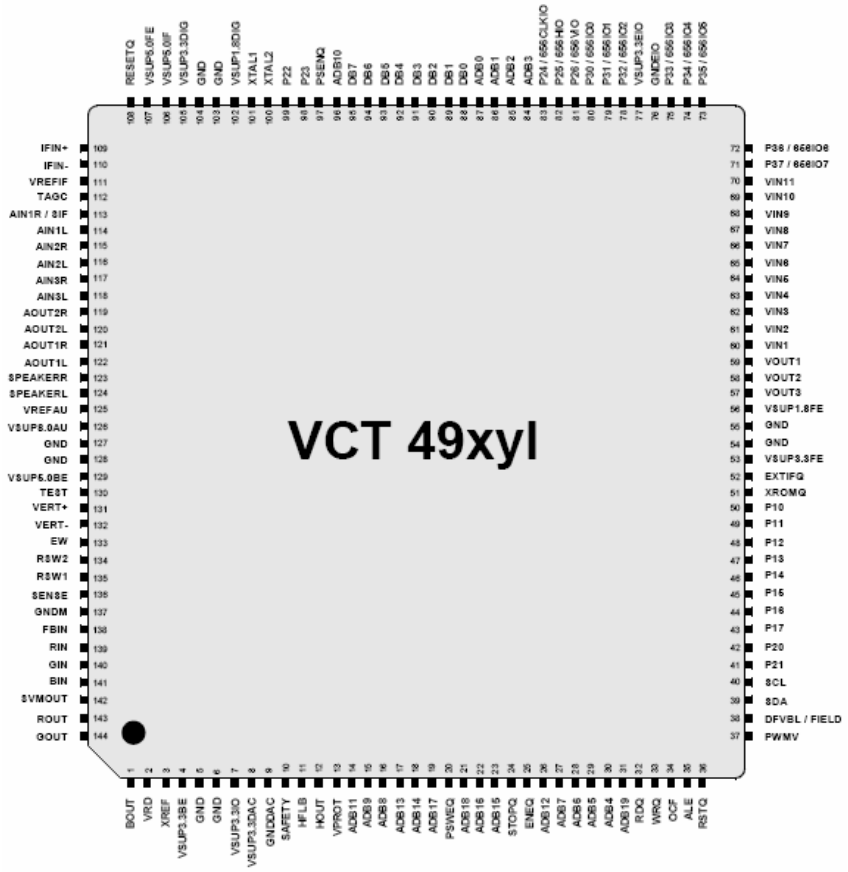
■ IC PIN OUT (UPD64015A)



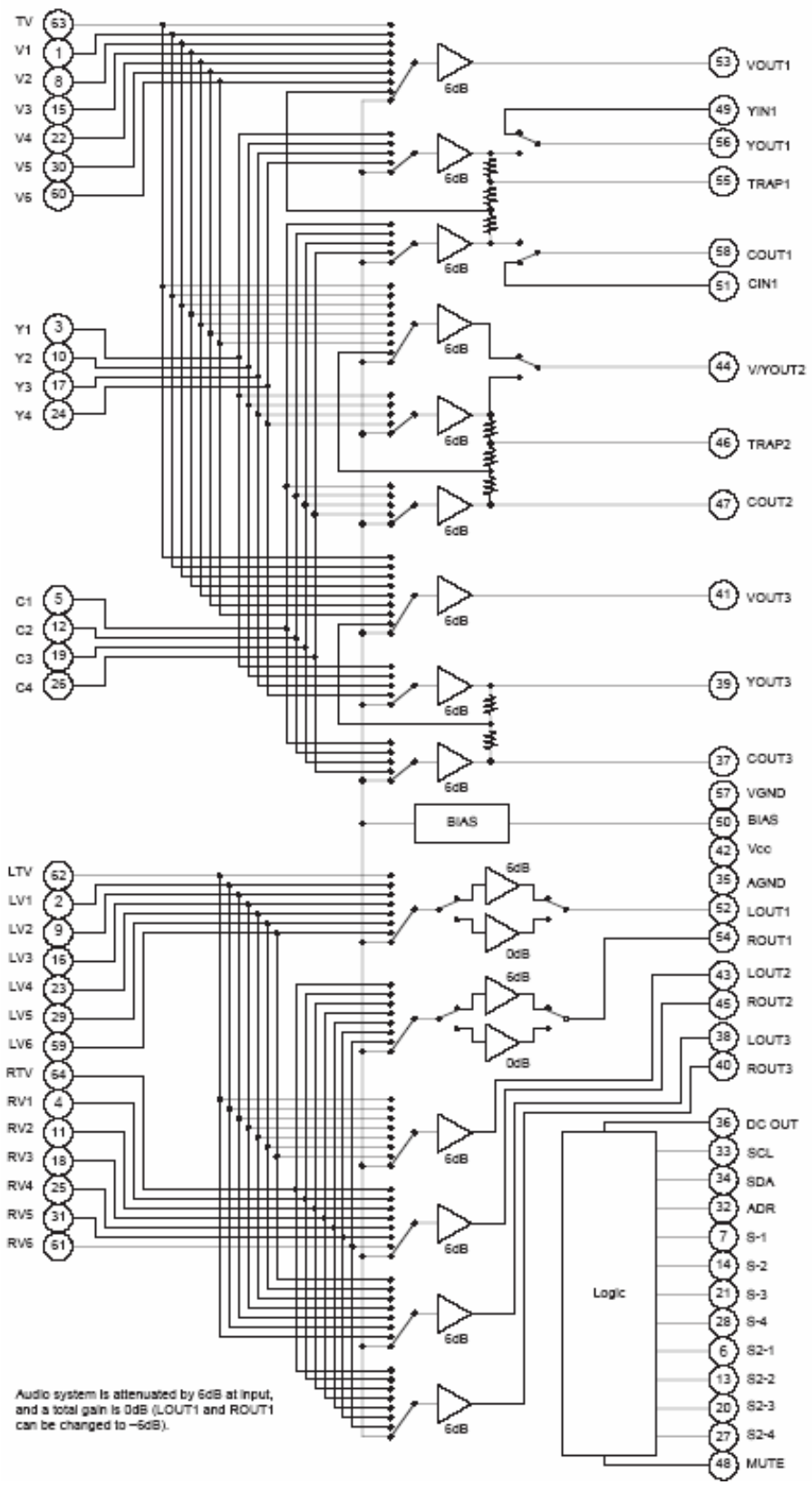
■ IC BLOCK DIAGRAM (VCY49xyI)



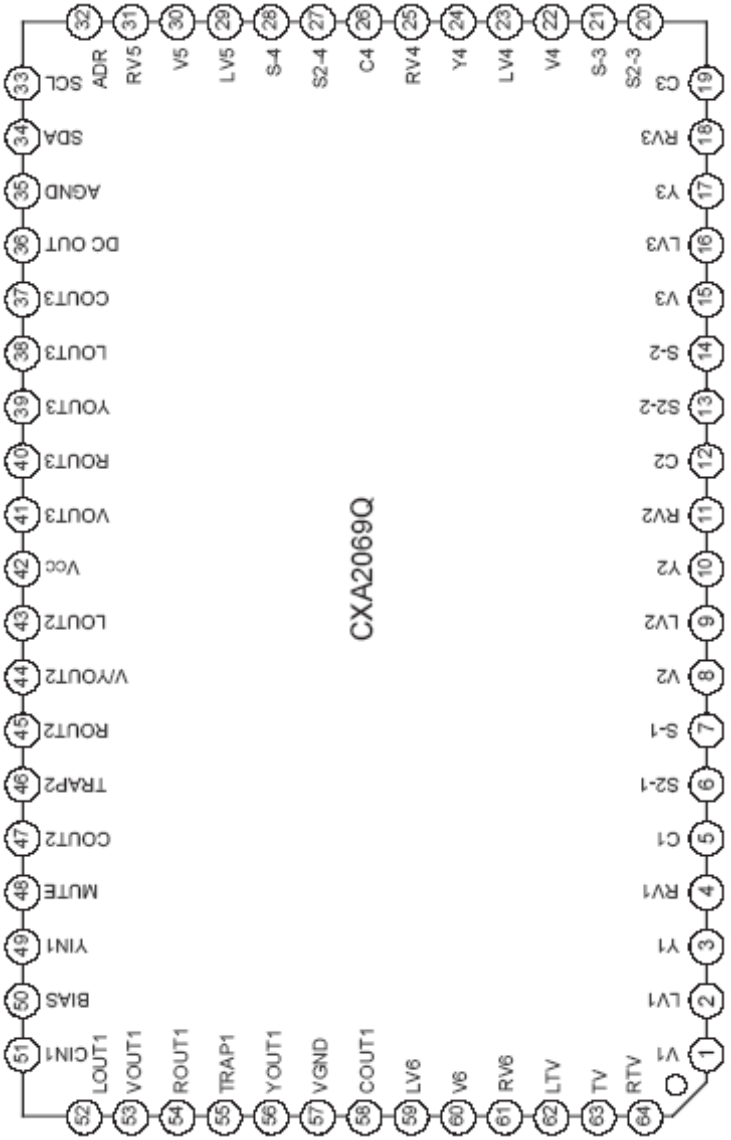
■ IC PIN OUT (VCT49xyI)



■ IC BLOCK DIAGRAM (CXA2069Q)



■ IC PIN OUT (CXA2069Q)



3. General Specification

No	Item	Specification				Remark
		Min	Typ	Max	Unit	
1.	Video Input	1) NTSC M 2) NTSC 4.43 3) PAL 4) SECAM				3.579545 / 60 Hz 4.433618 / 60 Hz 4.433618 / 50 Hz 4.286 / 50 Hz
2.	Component Input	480i/59.94/60Hz 576i/50Hz 480p/59.94/60Hz 576p/50Hz 720p/50/59.94/60Hz 1080i/50/59.94/60Hz				Table 1. (Component)
3.	RGB DTV Input	480p/59.94/60Hz 576p/50Hz 720p/50/59.94/60Hz 1080i/50/59.94/60Hz				Table 2. (RGB DTV)
4.	DVI DTV Input	480p/59.94/60Hz 576p/50Hz 720p/50/59.94/60Hz 1080i/50/59.94/60Hz				Table 3. (DVI DTV)
5.	RGB PC Input	VGA (640x480) SVGA (800x600) XGA (1024x768) SXGA (1280x1024) UXGA (1600x1200)				Table 4. (RGB PC)
6.	DVI PC Input	VGA (640x480) SVGA (800x600) XGA (1024x768) SXGA (1280x1024) UXGA (1600x1200)				Table 5. (DVI PC)
7.	HDMI Input	480p/59.94/60Hz 576p/50Hz 720p/50/59.94/60Hz 1080i/50/59.94/60Hz				Table 2. (RGB DTV) →HDMI Input (digital interface with HDCP)
8.	Input Voltage	AC 100 ~ 240 V, 50hz / 60hz				
9.	External Interface	DVI/ DVI DTV/ HDMI Input		2		HDMI Connector
		RGB PC/RGB DTV Input		1		D-Sub 15 Pin
		PC Sound Input		1		Ear-phone Jack (RGB PC,DVI)
		Component/L/R		1		RCA 2P
		COMPONENT Input		1		RCA 3P
		Full SCART Half SCART Cut SCART		1		SCART JACK
		SPDIF Output		1		OPTICAL JACK
		RF Input		1		-
		S-VIDEO Input		1		S-VIDEO JACK

■< Table 1. > Component Signal Resolution

No	Resolution	H-freq(KHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
1.	720x480	15.73	59.94	13.500	SDTV, DD 480i(525i)
2.	720x480	15.75	60.00	13.514	SDTV, DD 480i(525i)
3.	720x576	15.625	50.00	13.500	SDTV, DD 576i(525i)
4.	720x480	31.47	59.94	27.000	SDTV 480p
5.	720x480	31.50	60.00	27.027	SDTV 480p
6.	720x576	31.25	50.00	27.000	SDTV 576p
7.	1280x720	44.96	59.94	74.176	HDTV 720p
8.	1280x720	45.00	60.00	74.250	HDTV 720p
9.	1280x720	37.50	50.00	74.25	HDTV 720p 50Hz
10.	1920x1080	33.72	59.94	74.176	HDTV 1080i
11.	1920x1080	33.75	60.00	74.250	HDTV 1080i
12.	1920x1080	28.125	50.00	74.250	HDTV 1080i 59Hz

■< Table 2. > RGB -DTV Signal Resolution

No	Resolution	H-freq(KHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
1.	720x480	31.47	59.94	27.000	SDTV 480p
2.	720x480	31.50	60.00	27.027	SDTV 480p
3.	720x576	31.25	50.00	27.000	SDTV 576p
4.	1280x720	44.96	59.94	74.176	HDTV 720p
5.	1280x720	45.00	60.00	74.250	HDTV 720p
6.	1280x720	37.50	50.00	74.25	HDTV 720p 50Hz
7.	1920x1080	33.72	59.94	74.176	HDTV 1080i
8.	1920x1080	33.75	60.00	74.250	HDTV 1080i
9.	1920x1080	28.125	50.00	74.250	HDTV 1080i 59Hz

■< Table 3. > DVI- DTV Resolution

No	Resolution	H-freq(KHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
1.	720x480	31.47	59.94	27.000	SDTV 480p
2.	720x480	31.50	60.00	27.027	SDTV 480p
3.	720x576	31.25	50.00	27.000	SDTV 576p
4.	1280x720	44.96	59.94	74.176	HDTV 720p
5.	1280x720	45.00	60.00	74.250	HDTV 720p
6.	1280x720	37.50	50.00	74.25	HDTV 720p 50Hz
7.	1920x1080	33.72	59.94	74.176	HDTV 1080i
8.	1920x1080	33.75	60.00	74.250	HDTV 1080i
9.	1920x1080	28.125	50.00	74.250	HDTV 1080i 59Hz

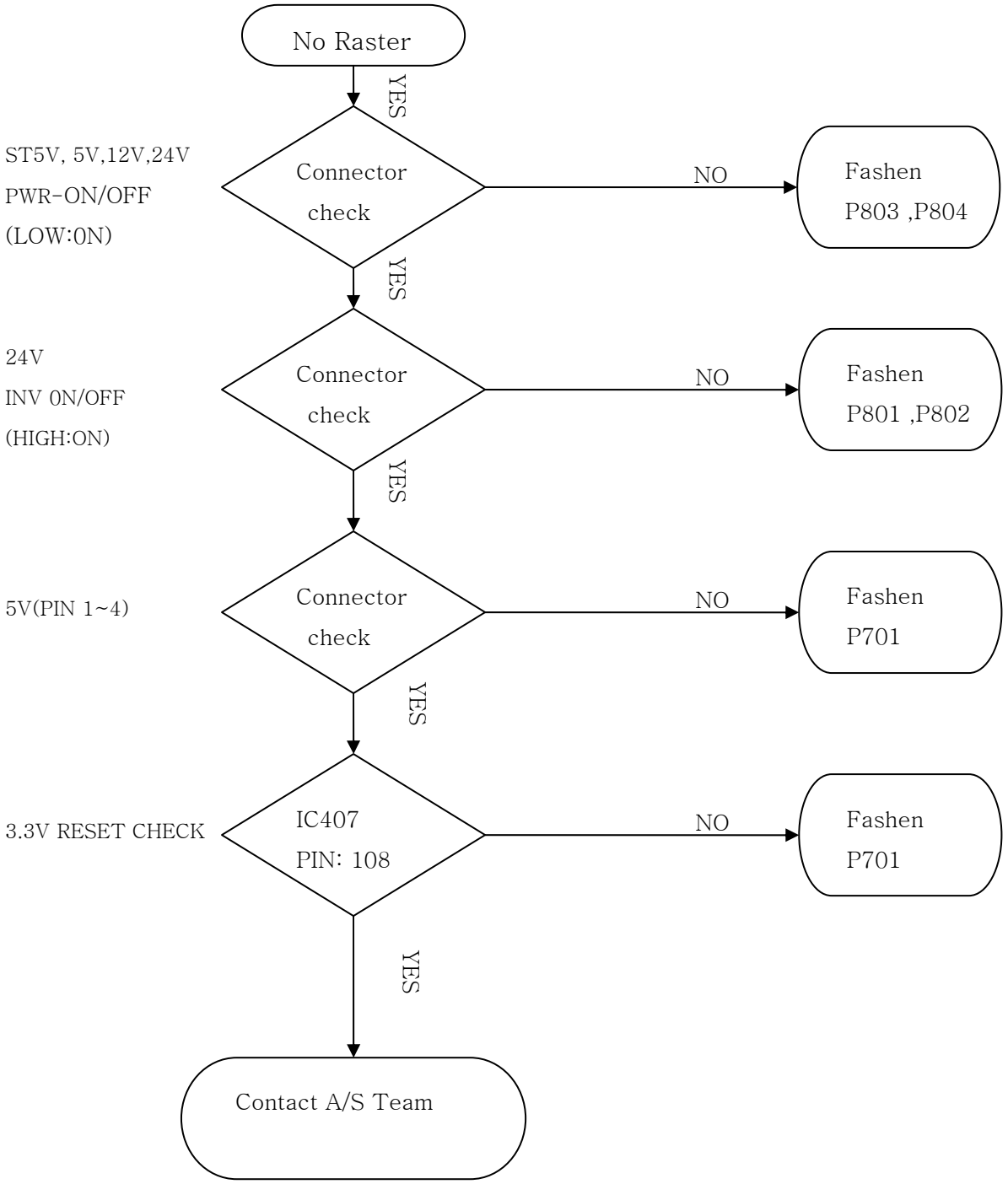
■< Table 4. > RGB -PC Signal Resolution

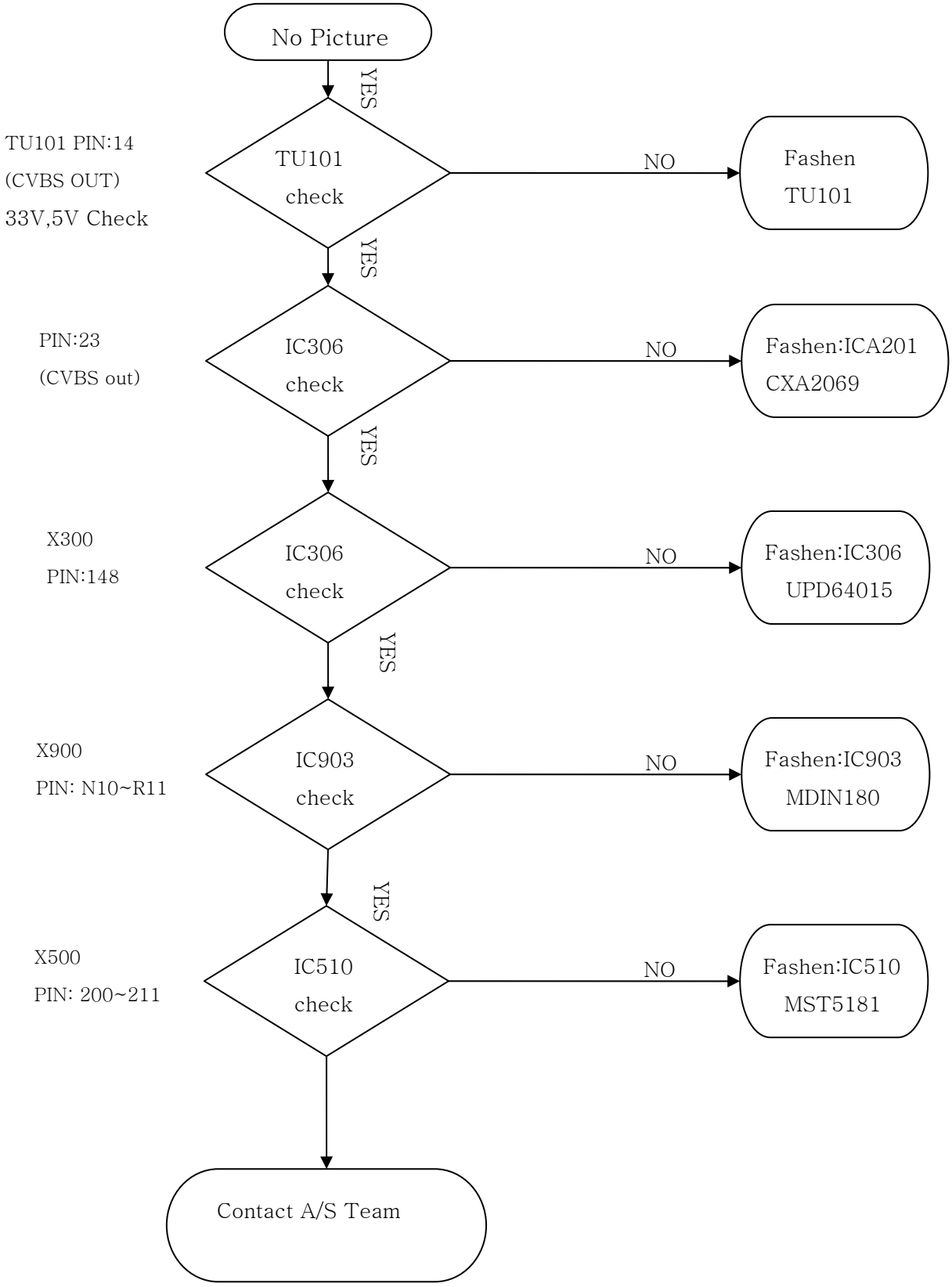
No	Resolution	H-freq(KHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
1.	640x350	31.469	70.08	25.17	DOS
2.	720x400	31.469	70.08	28.32	DOS
3.	720x400	37.927	85.03	35.50	DOS
4	640x480	31.469	59.94	25.17	VESA(VGA)
5.	640x480	37.861	72.80	31.50	VESA(VGA)
6.	640x480	37.500	75.00	31.50	VESA(VGA)
7.	640x480	43.269	85.00	36.00	VESA(VGA)
8.	800x600	35.156	56.25	36.00	VESA(SVGA)
9.	800x600	37.879	60.31	40.00	VESA(SVGA)
10.	800x600	48.077	72.18	50.00	VESA(SVGA)
11.	800x600	46.875	75.00	49.50	VESA(SVGA)
12.	800x600	53.674	85.06	56.25	VESA(SVGA)
13.	832x624	49.725	74.55	57.28	Macintosh
14.	1024x768	48.363	60.00	65.00	VESA(XGA)
15.	1024x768	56.476	70.06	75.00	VESA(XGA)
16.	1024x768	60.023	75.02	78.75	VESA(XGA)
17.	1024x768	68.677	85.00	95.62	VESA(XGA)
18.	1280x768	47.693	60.0	80.12	VESA(WXGA)
19.	1280x768	60.091	75.0	102.87	VESA(WXGA)
20.	1280x768	68.504	85.0	118.37	VESA(WXGA)
21.	1280x1024	64.000	60.00	108.000	VESA(SXGA)
22.	1280x1024	74.405	69.99	125.000	VESA(SXGA)
23.	1280x1024	80.000	75.00	135.000	VESA(SXGA)
24.	1280x1024	91.100	85.00	157.500	VESA(SXGA)
25.	1600x1200	75.000	60.00	162.000	VESA(UXGA)

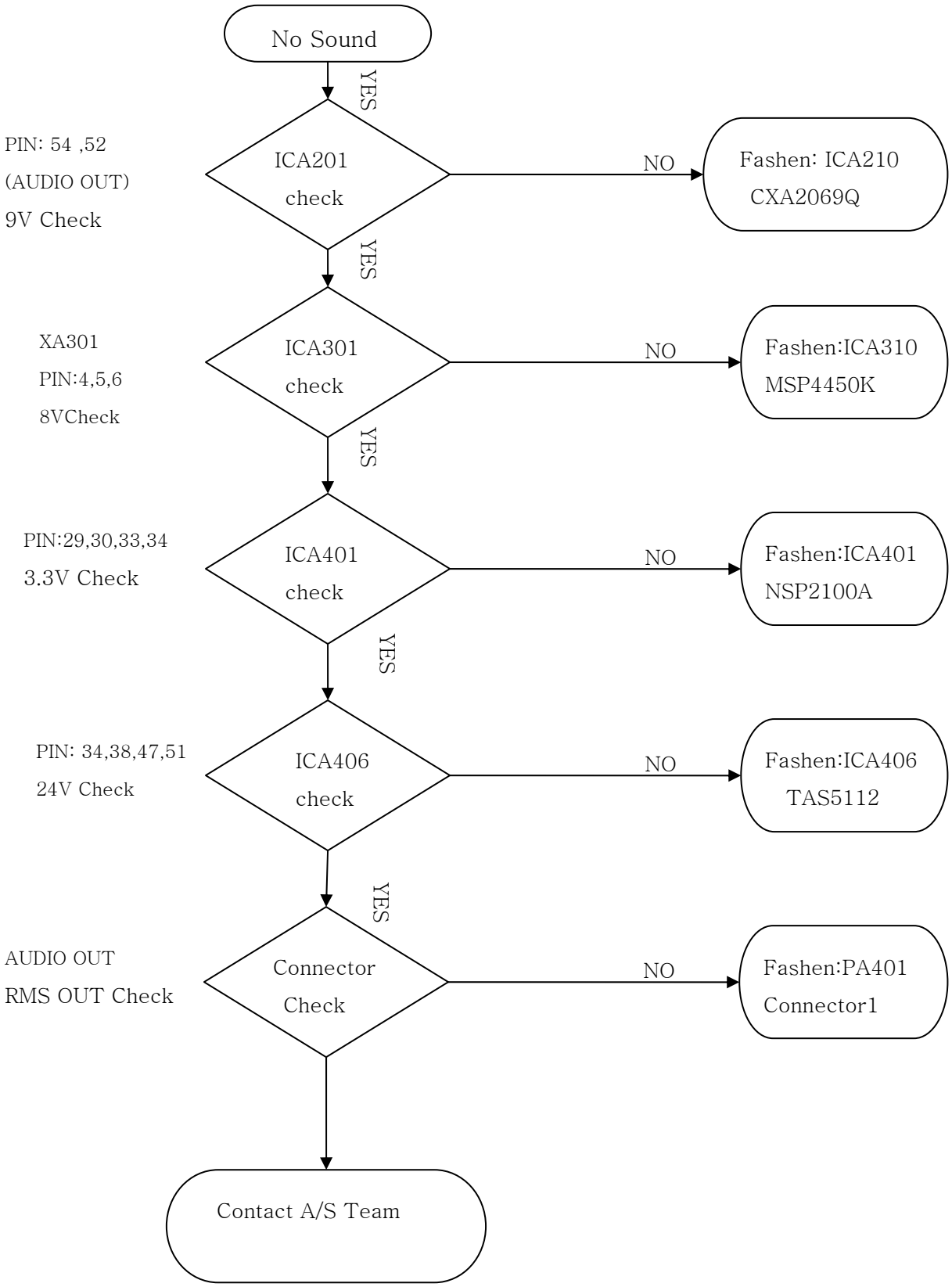
■< Table 5. > DVI -PC Signal Resolution

No	Resolution	H-freq(KHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
1.	640x350	31.469	70.08	25.17	DOS
2.	720x400	31.469	70.08	28.32	DOS
3.	720x400	37.927	85.03	35.50	DOS
4	640x480	31.469	59.94	25.17	VESA(VGA)
5.	640x480	37.861	72.80	31.50	VESA(VGA)
6.	640x480	37.500	75.00	31.50	VESA(VGA)
7.	640x480	43.269	85.00	36.00	VESA(VGA)
8.	800x600	35.156	56.25	36.00	VESA(SVGA)
9.	800x600	37.879	60.31	40.00	VESA(SVGA)
10.	800x600	48.077	72.18	50.00	VESA(SVGA)
11.	800x600	46.875	75.00	49.50	VESA(SVGA)
12.	800x600	53.674	85.06	56.25	VESA(SVGA)
13.	832x624	49.725	74.55	57.28	Macintosh
14.	1024x768	48.363	60.00	65.00	VESA(XGA)
15.	1024x768	56.476	70.06	75.00	VESA(XGA)
16.	1024x768	60.023	75.02	78.75	VESA(XGA)
17.	1024x768	68.677	85.00	95.62	VESA(XGA)
18.	1280x768	47.693	60.0	80.12	VESA(WXGA)
19.	1280x768	60.091	75.0	102.87	VESA(WXGA)
20.	1280x768	68.504	85.0	118.37	VESA(WXGA)
21.	1280x1024	64.000	60.00	108.000	VESA(SXGA)
22.	1280x1024	74.405	69.99	125.000	VESA(SXGA)
23.	1280x1024	80.000	75.00	135.000	VESA(SXGA)
24.	1280x1024	91.100	85.00	157.500	VESA(SXGA)
25.	1600x1200	75.000	60.00	162.000	VESA(UXGA)

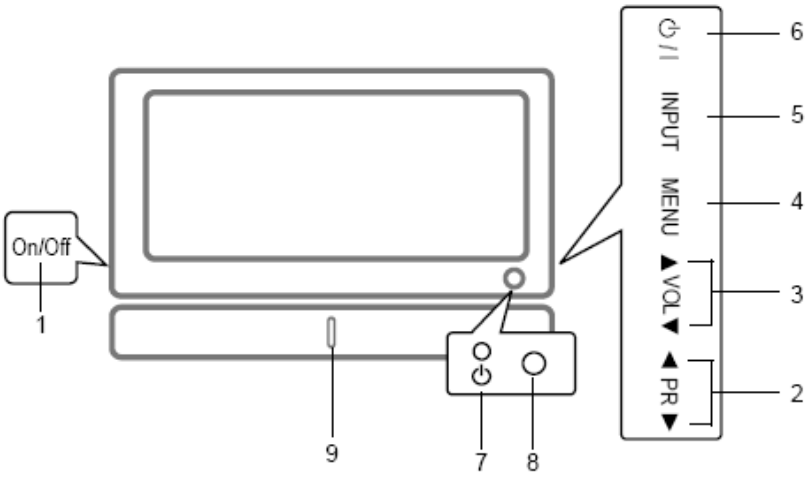
4. TROUBLESHOOTING




No Picture
YES
TU101 PIN:14
(CVBS OUT)
33V,5V Check
TU101
check
NO
Fashen
TU101
YES
PIN:23
(CVBS out)
IC306
check
NO
Fashen:ICA201
CXA2069
YES
X300
PIN:148
IC306
check
NO
Fashen:IC306
UPD64015
YES
X900
PIN: N10~R11
IC903
check
NO
Fashen:IC903
MDIN180
YES
X500
PIN: 200~211
IC510
check
NO
Fashen:IC510
MST5181
Contact A/S Team



5. CONTROLS OF FRONT PANEL



1. **MAIN POWER**
   switches the set On or Off.

2. **▲ / ▼ (Programme Up/Down)**
   selects a programme or a menu item.
   switches the set On from standby.

3. **◄ / ► (Volume Down/Up)**
   adjusts the volume.
   adjusts menu settings.

4. **MENU**
   selects a menu.

5. **INPUT**
   selects **TV**, **AV1**, **AV2**, **AV3**, **AV4**, **S-VIDEO**, **COMPONENT**, **PC-RGB**, **HDMI1**, **HDMI2**, **NIMP** mode.

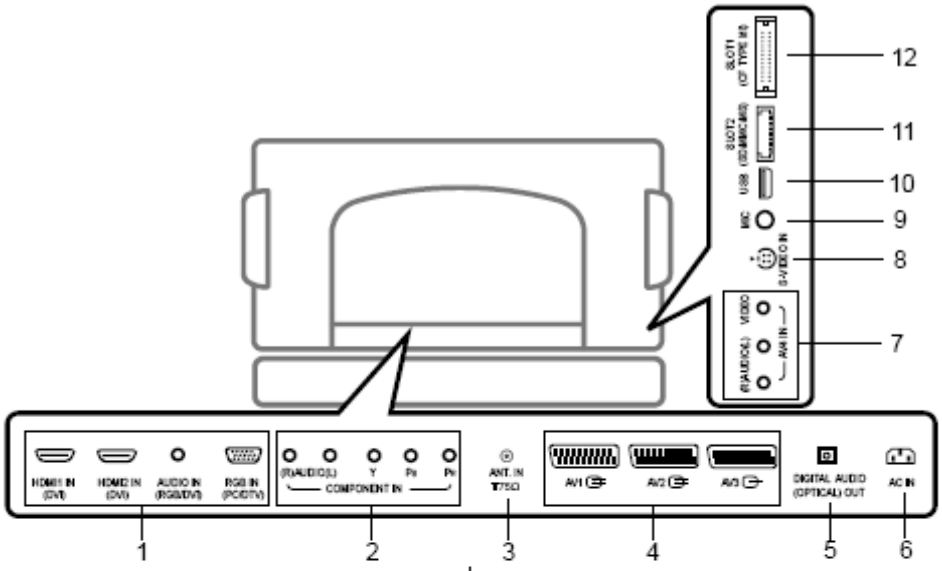
6. **POWER (⏻)**
   switches the set On from standby or On to standby.

7. **POWER/STANDBY INDICATOR (⏻)**
   illuminates red in standby mode.
   illuminates green when the set is switched On.

8. **REMOTE CONTROL SENSOR**

9. **Front Light LED**

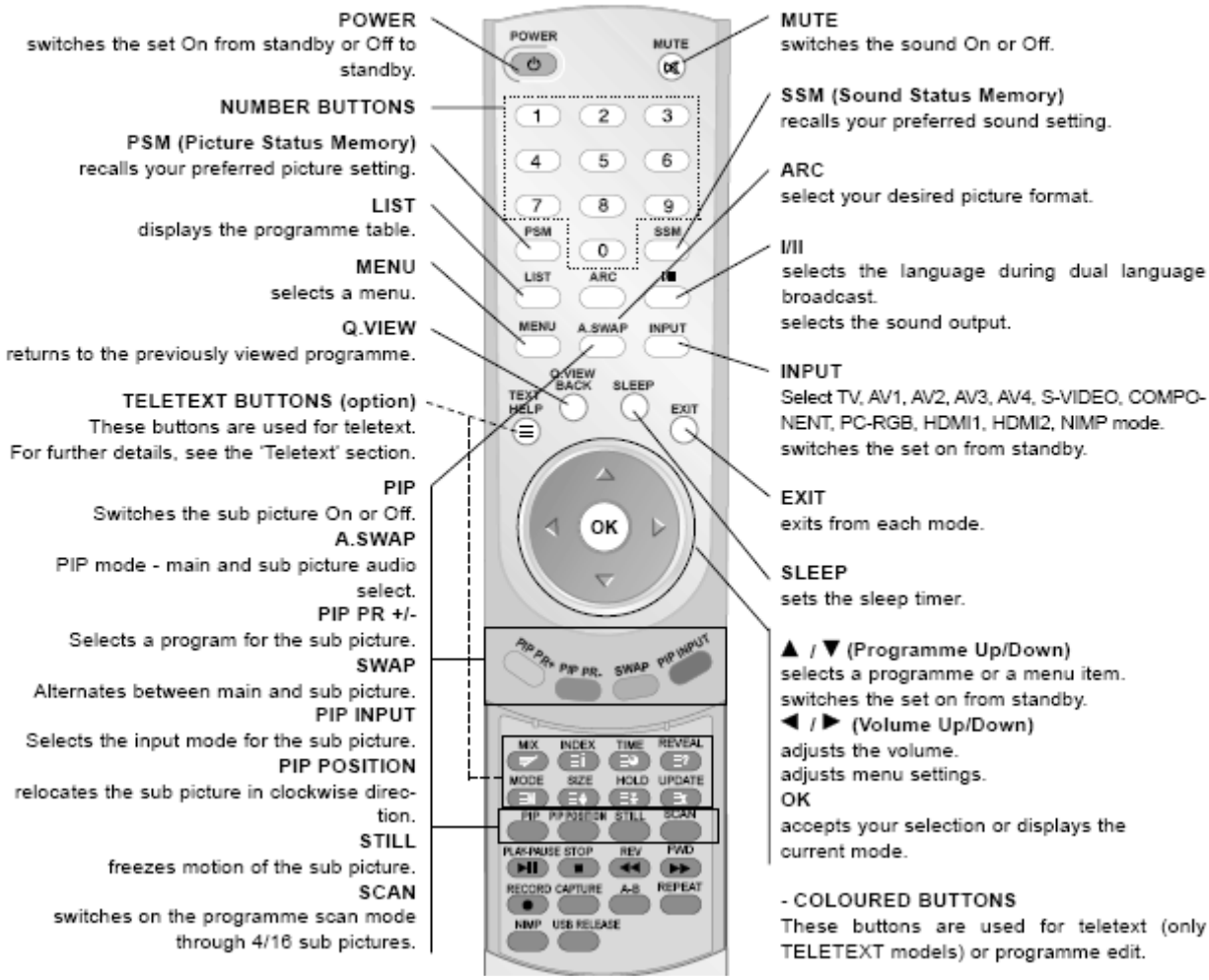
6. CONNECTIONS OF BACK PANEL



1. **HDMI1 IN / HDMI2 IN / AUDIO IN / RGB IN SOCKETS**
   Connect the set output socket of the PERSONAL COMPUTER to this socket.
2. **AUDIO IN / COMPONENT IN (480i / 480p / 576i / 576p / 720p / 1080i / 1080p) SOCKETS**
3. **AERIAL SOCKET**
4. **EURO SCART SOCKET**
   connect the euro scart socket of the VCR to these sockets.
5. **DIGITAL AUDIO (OPTICAL) OUT**
   Connect digital audio from various types of equipment.
   ***Note** : In standby mode, these ports will not work.*
6. **POWER CORD SOCKET**
   This set operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the set on DC power.
7. **AUDIO/VIDEO SOCKET**
   Connect the audio/video out sockets of the VCR to **AV** sockets of the set.
8. **S-VIDEO INPUT**
   connect video out from an S-VIDEO VCR to the S-VIDEO input.
9. **MIC**
   Microphone socket.
10. **USB**
    USB Host socket.
11. **SLOT2**
    SD/MMC/MS card socket.
12. **SLOT1**
    CF TYPE I/II card socket.

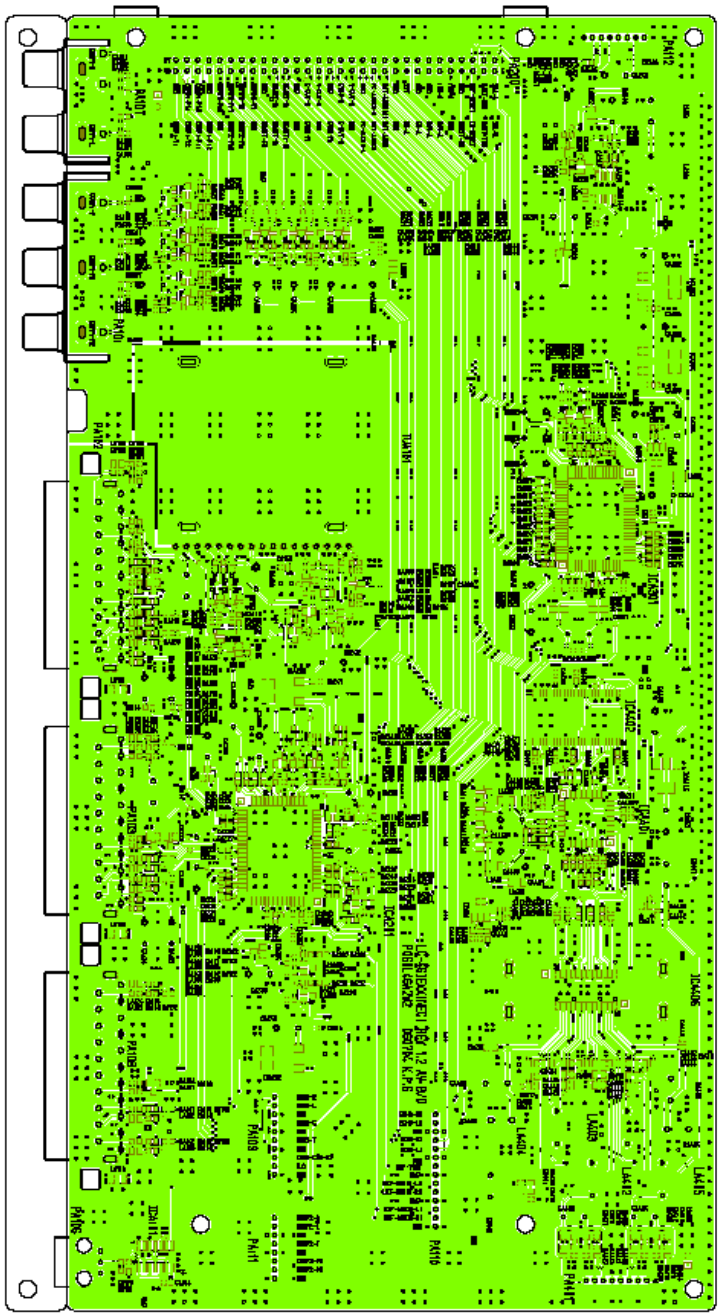
7. REMOTE CONTROL HANDSET

- All the functions can be controlled with the remote control handset.
- Some functions can also be adjusted with the buttons on the front panel of the set.

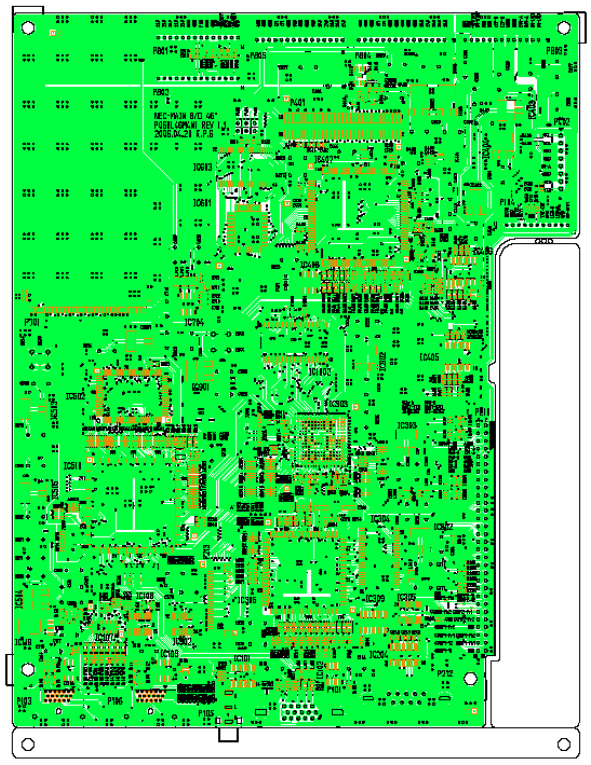


8. PCB LAY OUT

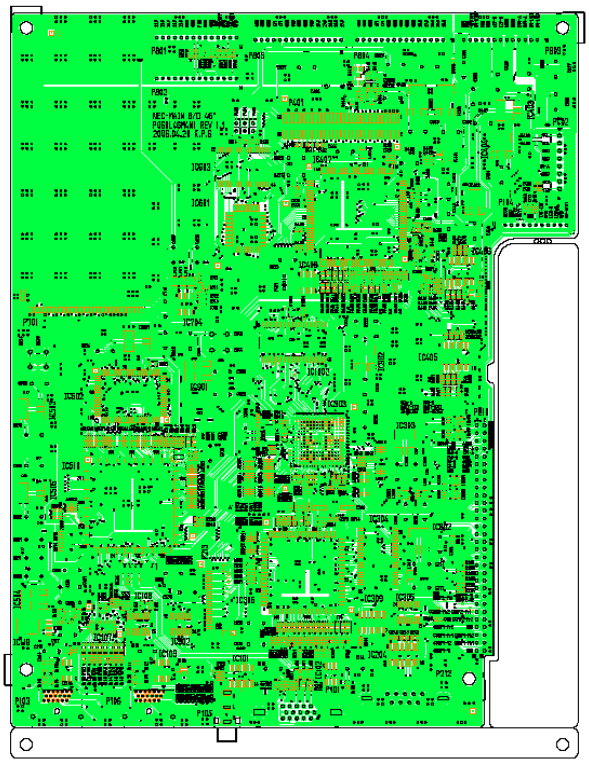
AV PCB



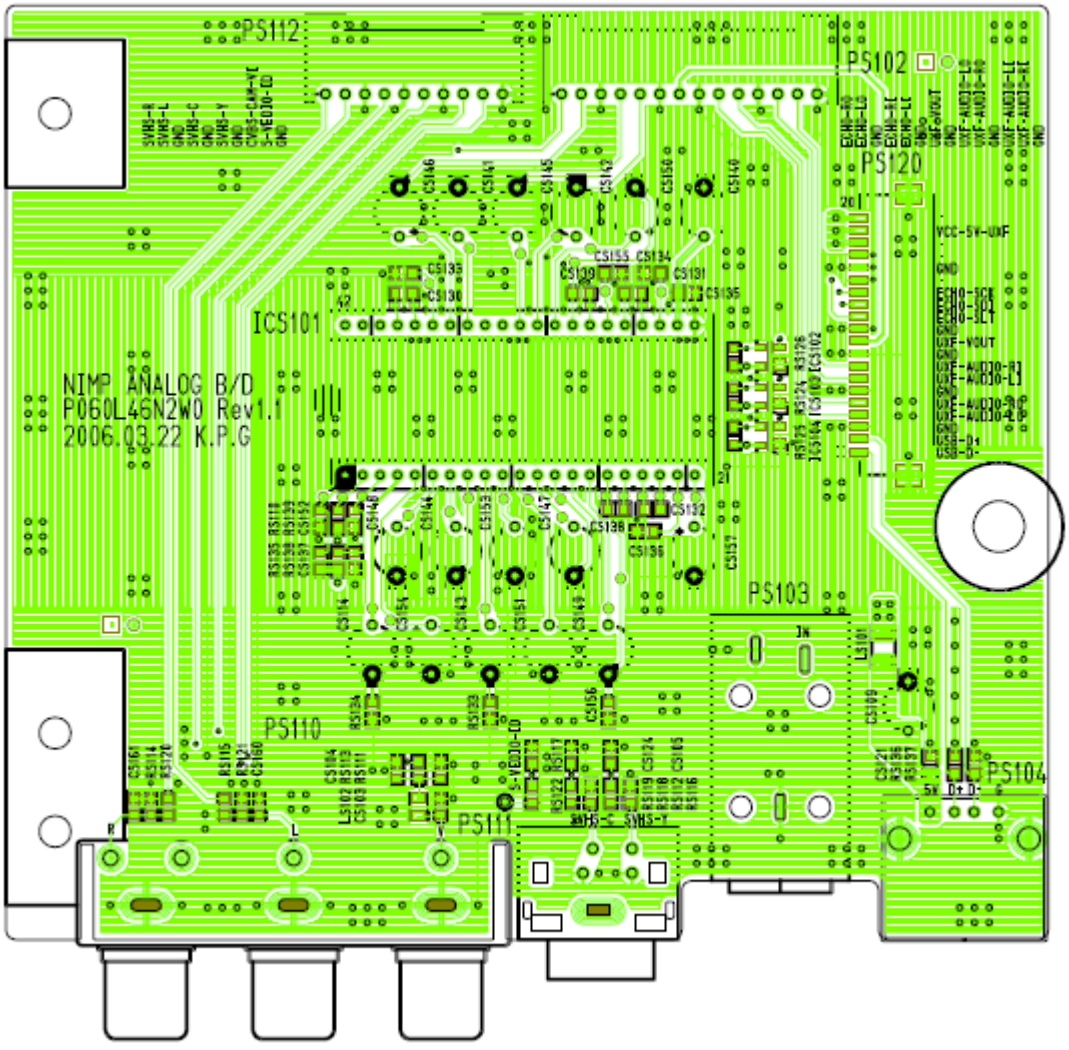
■MAIN TOP　PCB



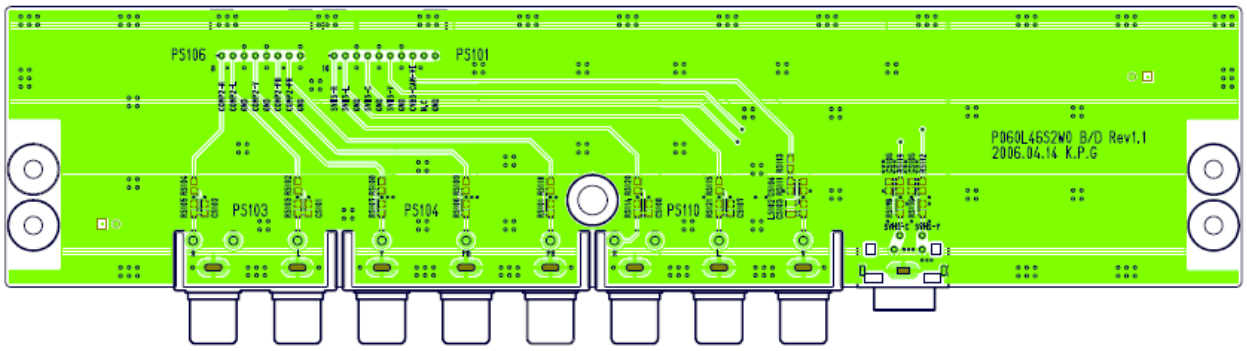
■MAIN BOTTOM PCB



■NIMP AV TOP

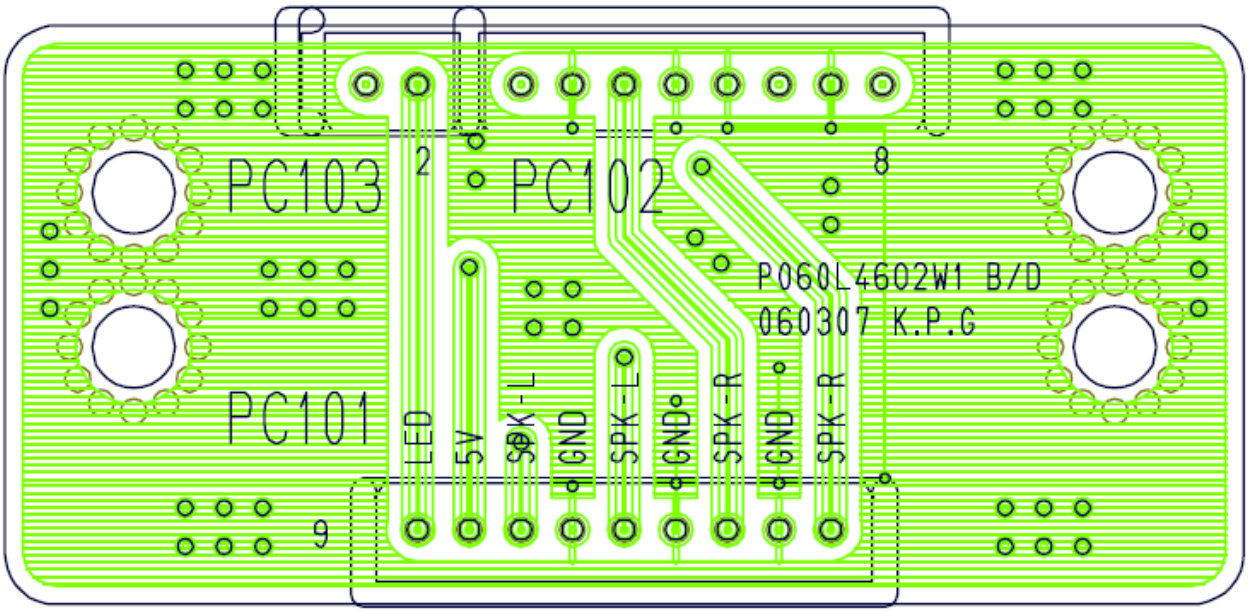

PS112
PS102
PS120
ICS101
NIMP ANALOG B/D
P060L46N2WD Rev1.1
2006.03.22 K.P.G
PS103
PS110
PS111
PS104

■SIDE AV



■ KEY PCB

■ AUDIO OUT PCB



9. FACTORY MENU

■Methods to enter Factory menu

- Power Off (Press “POWER” key).
- Press “Menu” key
- Press “Mute” key
- Press “OK” key
- Press “POWER” Key
- Factory menu

WHITE BALANCE
SOUND
OPTION1
OPTION2
OPTION3
HOTEL MODE
MICOM RESET
MEMORY-CLOCK SET
PANEL TYPE
MDIN Reg1
MDIN Reg2
PANEL : SS WS-L02
MODEL: LC-40IEA3
VER: 2.01 06/07/12

■White Balance

- enter to Factory menu
- Press “OK” key or “VOL +” key.
- Auto-Cutoff : Adjusting Auto R,G,B Cutoff
  (Input Mode:PC-RGB,DVI,COMPONET)
- R-Cutoff,G-Cutoff,B-Cutoff : Adjusting Red,Green,Blue Gain
  (Input Mode:PC-RGB,DVI,COMPONET)
- Press “PR+” or “PR–“ key : Select Sub Menu
- Press “VOL+” or “VOL-“ : Adjusting Value
- Press “Menu” key : return Factory menu

-Press “Exit” key : exit

AUTO-CUTOFF
R-DRIVE
G-DRIVE
B-DRIVE
R-CUTOFF 0
G-CUT0FF 0
B-CUTOFF 0

■Sound

- enter to Factory menu
- Select menu
- Press “OK” key or “VOL +” key
-Press “PR+” or “PR–“ key : Select Sub Menu
-Press “VOL+” or “VOL-“ : Adjusting Value
-Press “Menu” key : return Factory menu
-Press “Exit” key : exit

* Adjusting Range

- Dual ,A2 Stereo,Dolby,Woofer (0: Off / 1: On)
- SC Prescale,FM Prescale, Nicam Prescale : 0~255

DUAL	1
A2 STEREO	1
DOLBY	0
WOOFER	0
SC PRESCALE	27
FM PRESCALE	19
NICAM PRESCALE	70
SOUND MODE	
PANEL : SS WS-L02	
MODEL: LC-40IEA3	
VER: 2.01 06/07/12	

■OPTION1

- enter to Factory menu
- Select menu
- Press “OK” key or “VOL +” key
-Press “PR+” or “PR–“ key : Select Sub Menu
-Press “VOL+” or “VOL-“ : Adjusting Value
-Press “Menu” key : return Factory menu
-Press “Exit” key : exit

* Adjusting Range

- China Au,Text,TXT-List Mode,TXT-TOP,TXT-ACMS,DTV-Text,GAME

(0: On / 1:Off)

-TXT-Lang: 0~16 ,Teletext Language

NO	Language	NO	Language
0	West Europe	9	Turkey/Greek3
1	East Europe	10	ARAB/FRANCE
2	Turkey	11	ARAB/ENGLISH
3	Czecho/Hungary	12	ARAB/HEBREW1
4	Cyrillic1	13	ARAB/HEBREW2
5	Cyrillic2	14	FARSI/ENGLISH
6	Cyrillic3	15	FARSI/FRANCE
7	Turkey/Greek1	16	FARSI ALL
8	Turkey/Greek2		

CHINA
TEXT
TXT LIST MODE
TXT-TOP
TXT-ACMS
DTV-TXT
GAME
TXT-LANG
WEST EUROPE

OPTION
PANEL : SS WS-L02
MODEL: LC-40IEA3
VER: 2.01 06/07/12

■OPTION2

- enter to Factory menu
- Select menu
- Press “OK” key or “VOL +” key
-Press “PR+” or “PR–“ key : Select Sub Menu
-Press “VOL+” or “VOL-“ : Adjusting Value
-Press “Menu” key : return Factory menu
-Press “Exit” key : exit

* Adjusting Range

- 200PR 0: PR Number 0~99
  1: PR Number 0~199
-SYSTEM 0: Not Use
  1: BG/I/DK/L
  2: BG/I/DK/M

200PR	0
SYSTEM BG/I/DK/L	1

■OPTION3

- enter to Factory menu
- Select menu
- Press “OK” key or “VOL +” key
-Press “PR+” or “PR–“ key : Select Sub Menu
-Press “VOL+” or “VOL-“ : Adjusting Value
-Press “Menu” key : return Factory menu
-Press “Exit” key : exit
- OSD Language Table

NO	Language	NO	Language
0	English	5	Portuguese
1	Deutsch	6	Danish
2	French	7	Swedish
3	Italian	8	Finnish
4	Spanish	9	Dutch

OSD LANGUAGE	0

■MICOM RESET

- Press “PR+/-” key Select MICOM RESET
- Press “OK” or ”VOL +” key
- Power off ,and Power on : Change System ID
- all User Adjust value Reset

WHITE BALANCE
SOUND
OPTION1
OPTION2
OPTION3
HOTEL MODE
MICOM RESET OK
MEMORY-CLOCK SET
PANEL TYPE
MDIN Reg1
MDIN Reg2
PANEL : SS WS-L02
MODEL: LC-40IEA3
VER: 2.01 06/07/12

■MEMORY-CLOCK SET

-Press “PR +/-“ key Select MEMORY-CLOCK SET menu

-Press “OK” or “VOL+” key enter to Sub menu

-Default value

DQSPH0	2
DQSPH1	1
DQSPH2	2
DQSPH3	1

-Recomand : Do Not Change!

DQSPH0	2
DQSPH1	1
DQSPH2	2
DQSPH3	1
PANEL : SS WS-L02	
MODEL: LC-40IEA3	
VER: 2.01 06/07/12	

■PANEL TYPE

-Press “PR +/-“ key Select MEMORY-CLOCK SET menu

-Press “OK” or “VOL+” key enter to Sub menu

-Default value -Recomand : Do Not Change!

PANEL L01 PID

PANEL L02

PANEL L03

PANEL : SS WS-L02

MODEL: LC-40IEA3

VER: 2.01 06/07/12

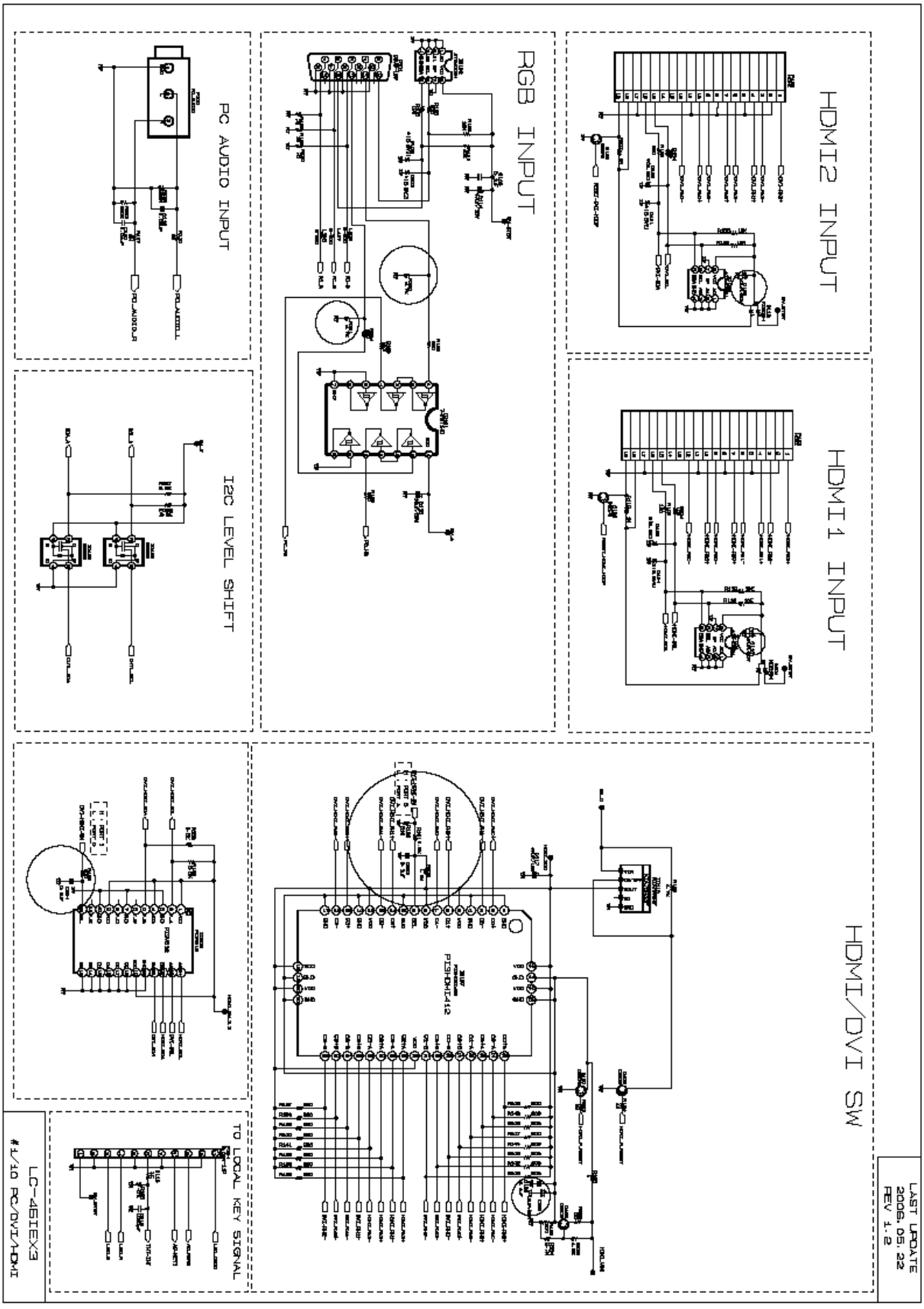
■MDIN Reg1

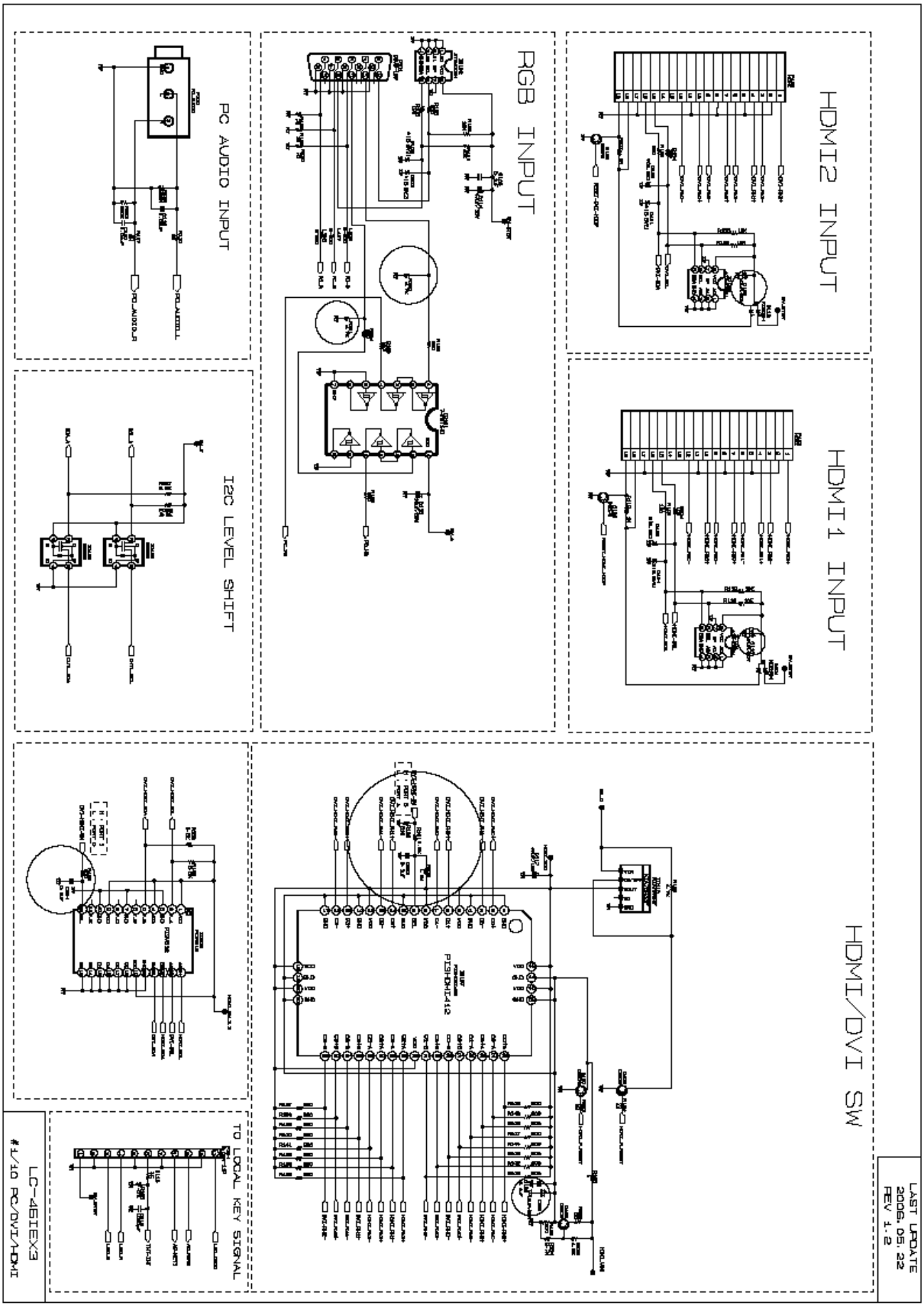
-Press “PR +/-“ key Select MEMORY-CLOCK SET menu

-Press “OK” or “VOL+” key enter to Sub menu

-Default value -Recomand : Do Not Change!

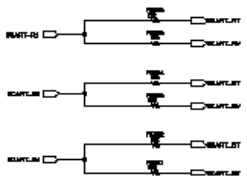
MDIN Reg1	Sharpness	Sharpness Setting.	18
	LTI gain	LTI gain Setting.	2
	CTBI gain	CTBI gain Setting.	24
	CTIR gain	CTIR gain Setting.	24
	Contrast	Contrast Setting.	512
	Brightness	Brightness Setting.	0
	Cb saturation	Cb saturation Setting.	512
	Cr saturation	Cr saturation Setting.	512
	Cb offset	Cb offset Setting.	3594
	Cr offset	Cr offset Setting.	3594
MDIN Reg2	Mo1	Motion Setting.	14
	Mo2	Motion Setting.	15
	Nr offset1	Nr offset1 Setting.	4
	Nr offset2	Nr offset2 Setting.	4
	Nr on/off	Nr on/off Setting.	1
	Sel BW func	Sel BW func Setting.	0
	Suf face Flt	Suf face Fl Setting.	1
	Sel Color	Sel Color Setting.	2D
	Nr Table	Nr Table Setting.	0
	Nr Factor	Nr Factor Setting.	28
	Mo test	Mo test Setting.	off


HDMI2 INPUT
HDMI1 INPUT
RGB INPUT
PC AUDIO INPUT
I2C LEVEL SHIFT
HDMI/DVI SW
TO LOCAL KEY SIGNAL
LAST UPDATE
2006. 05. 22
REV 1.2
LC-46EIEX3
#1/10 PC/DVI/HDMI

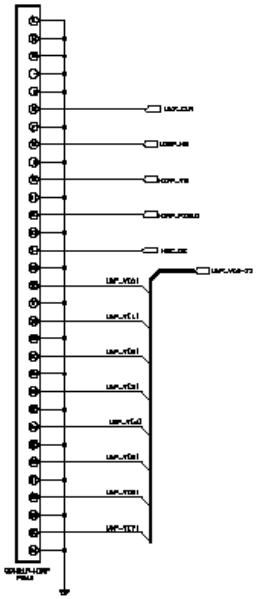

HDMI2 INPUT
HDMI1 INPUT
RGB INPUT
PC AUDIO INPUT
I2C LEVEL SHIFT
HDMI/DVI SW
TO LOCAL KEY SIGNAL
LAST UPDATE
2006. 05. 22
REV 1.2
LC-46EIEX3
#1/10 PC/DVI/HDMI

LAST UPDATE
2006.05.22
REV1.2

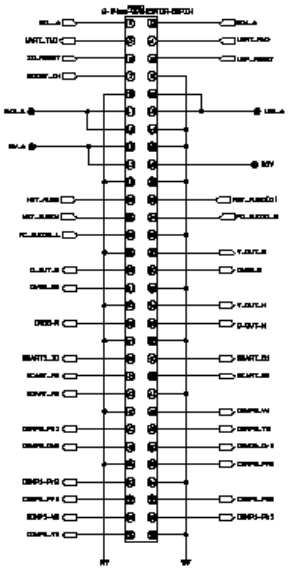
SCART BUFFER



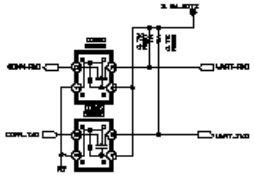
UXF INTERFACE



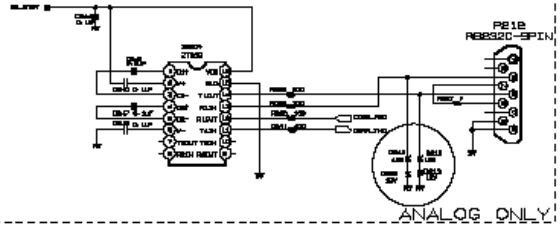
TO AV BOARD



UART WITH UXF

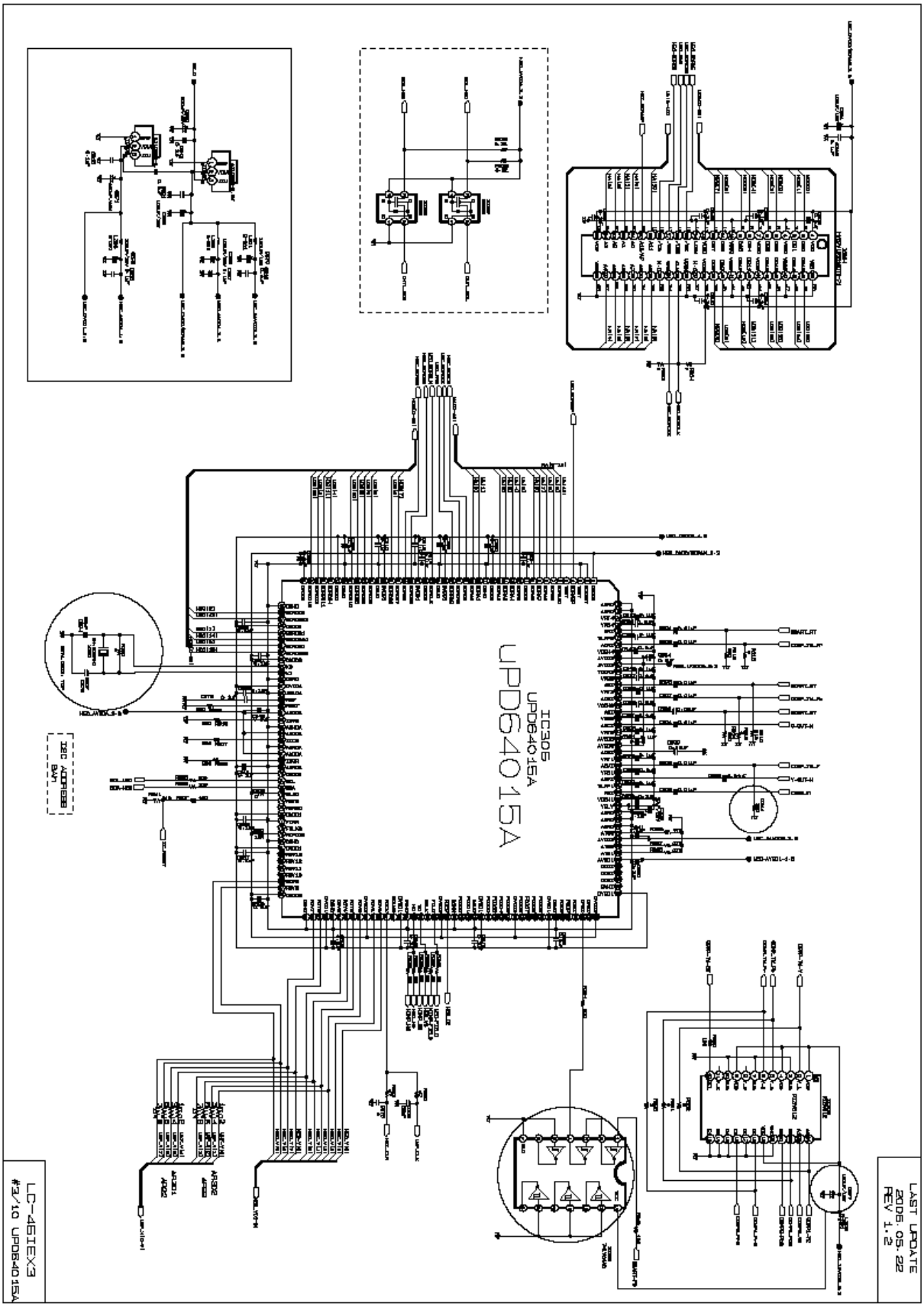


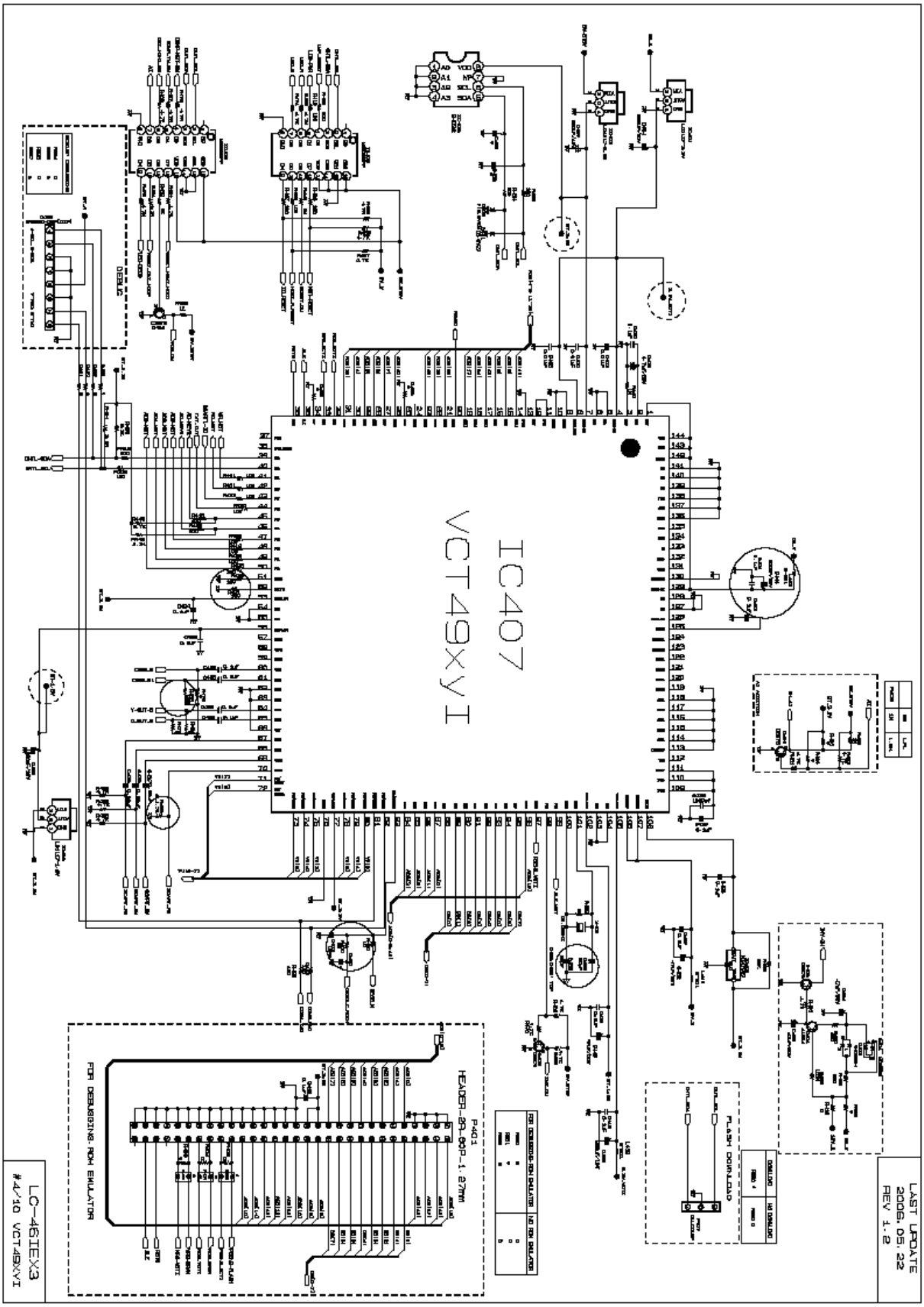
RS-232C

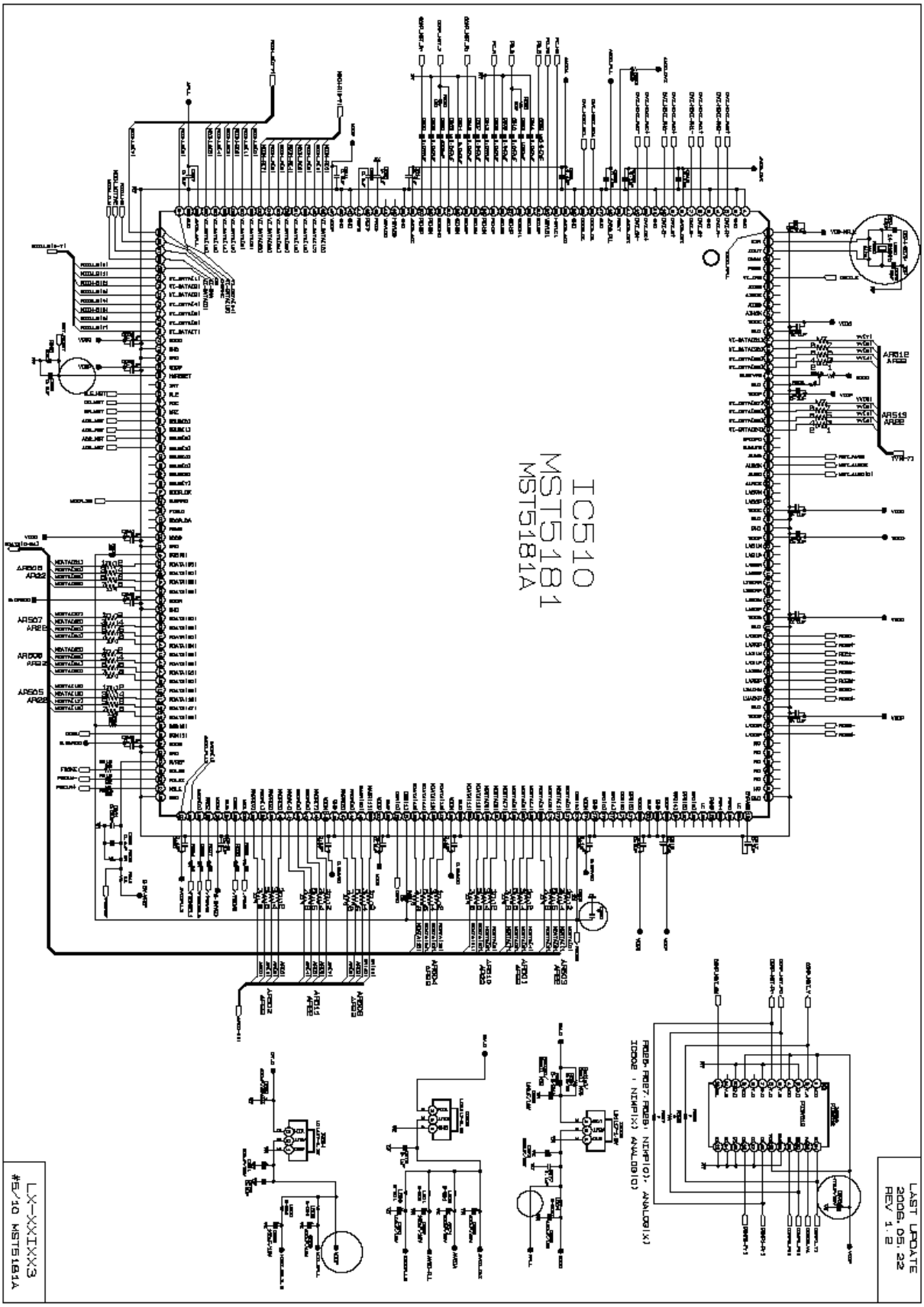


ANALOG ONLY

LC-46IEX3
#2/10 COMPONENT

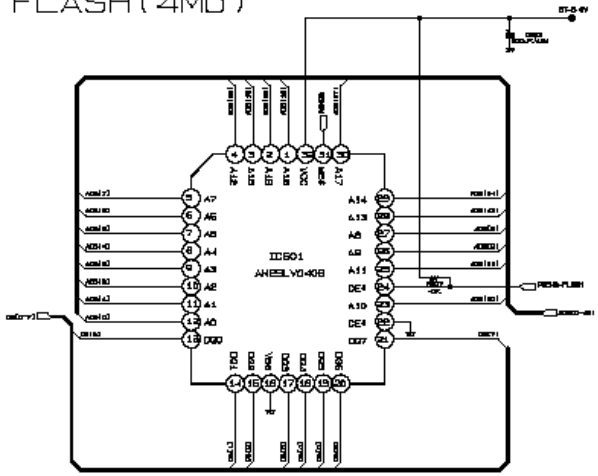

LC-45IEX3
#2/10 UPD640154
LAST UPDATE
2006.05.22
REV 1.2
IC305
UPD640154
UPD640154
I2C ADDRESS
0xA1


IC407
VCT49xyI
LC-46IEX3
#4/10 VCT49XYI
LAST UPDATE
2006. 05. 22
REV 1.2
FOR DEBUGGING ROM EMULATOR
P401
HEADER-SPL-60P-1.27MM
FLASH DOWNLOAD

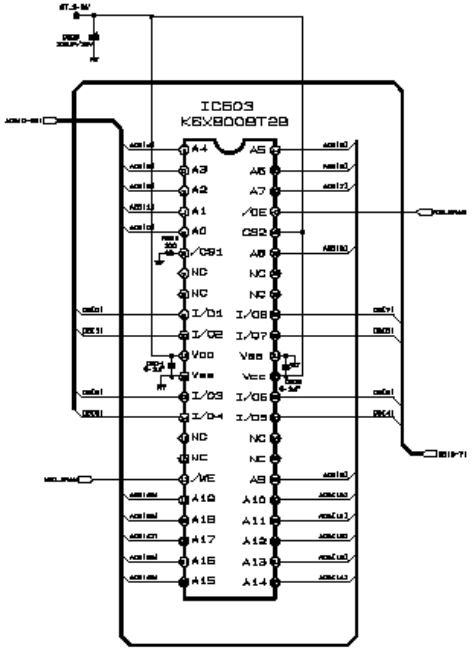

IC510
MST5181
MST5181A
LX-XXIXX3
#5/10 MST5181A
LAST UPDATE
2006.05.22
REV 1.2

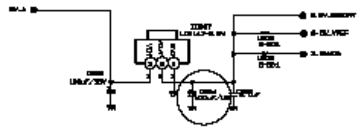
LAST UPDATE
2006. 05. 22
REV 1.2

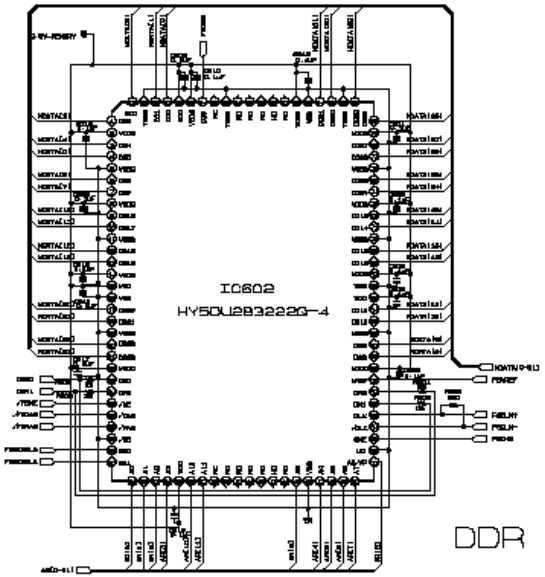
FLASH (4Mb)



SRAM (8Mb)

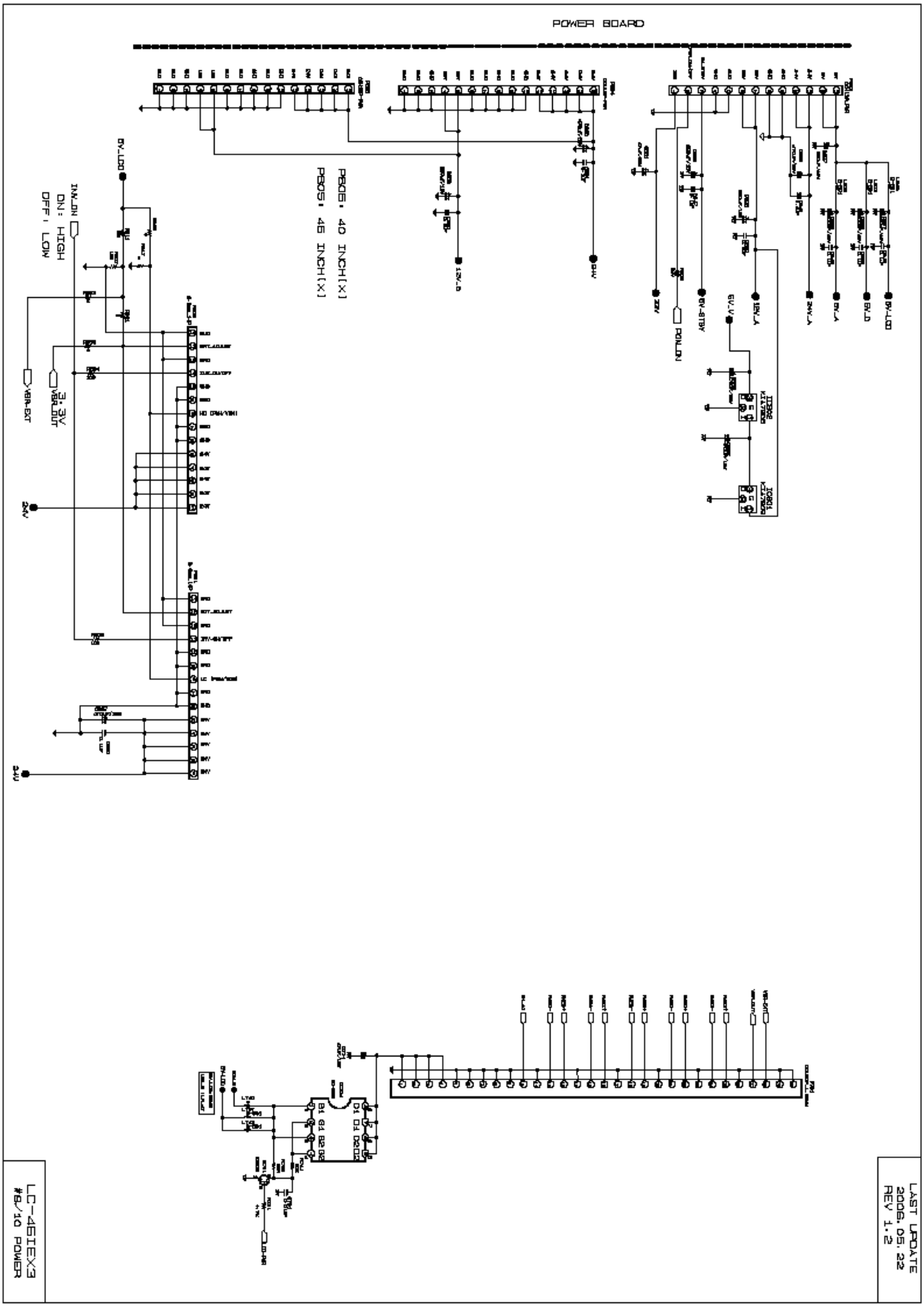


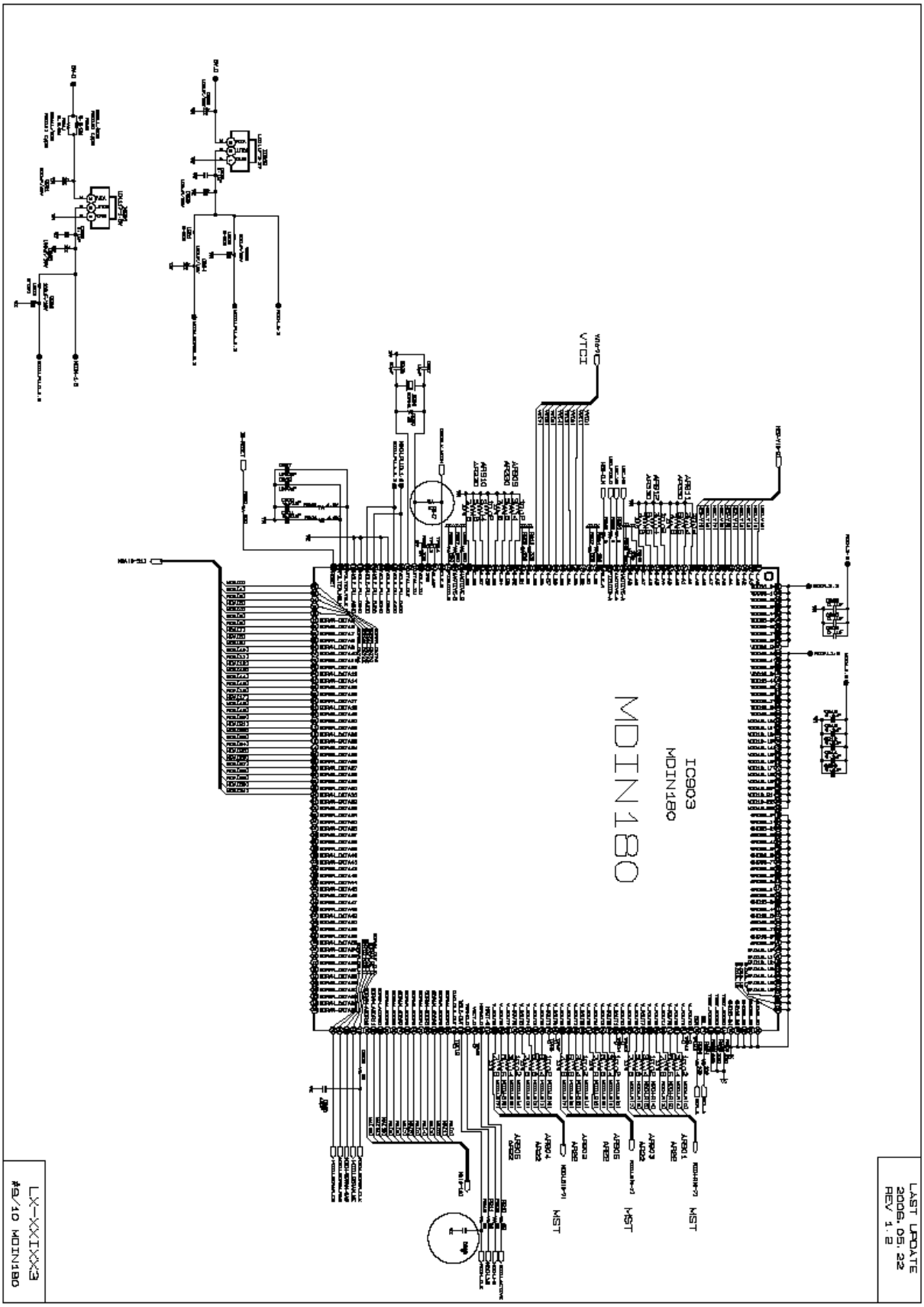


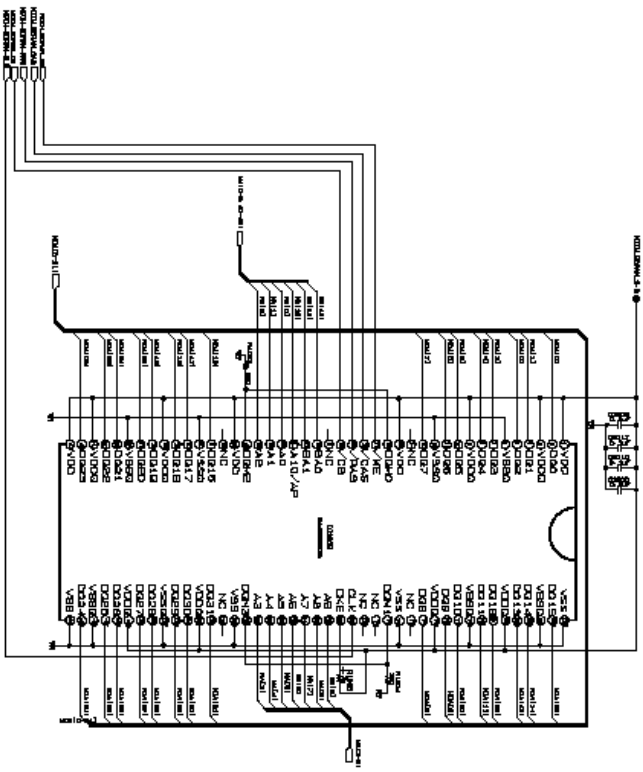


DDR SDRAM

LC-46IEX3
#6/10 MEMORY

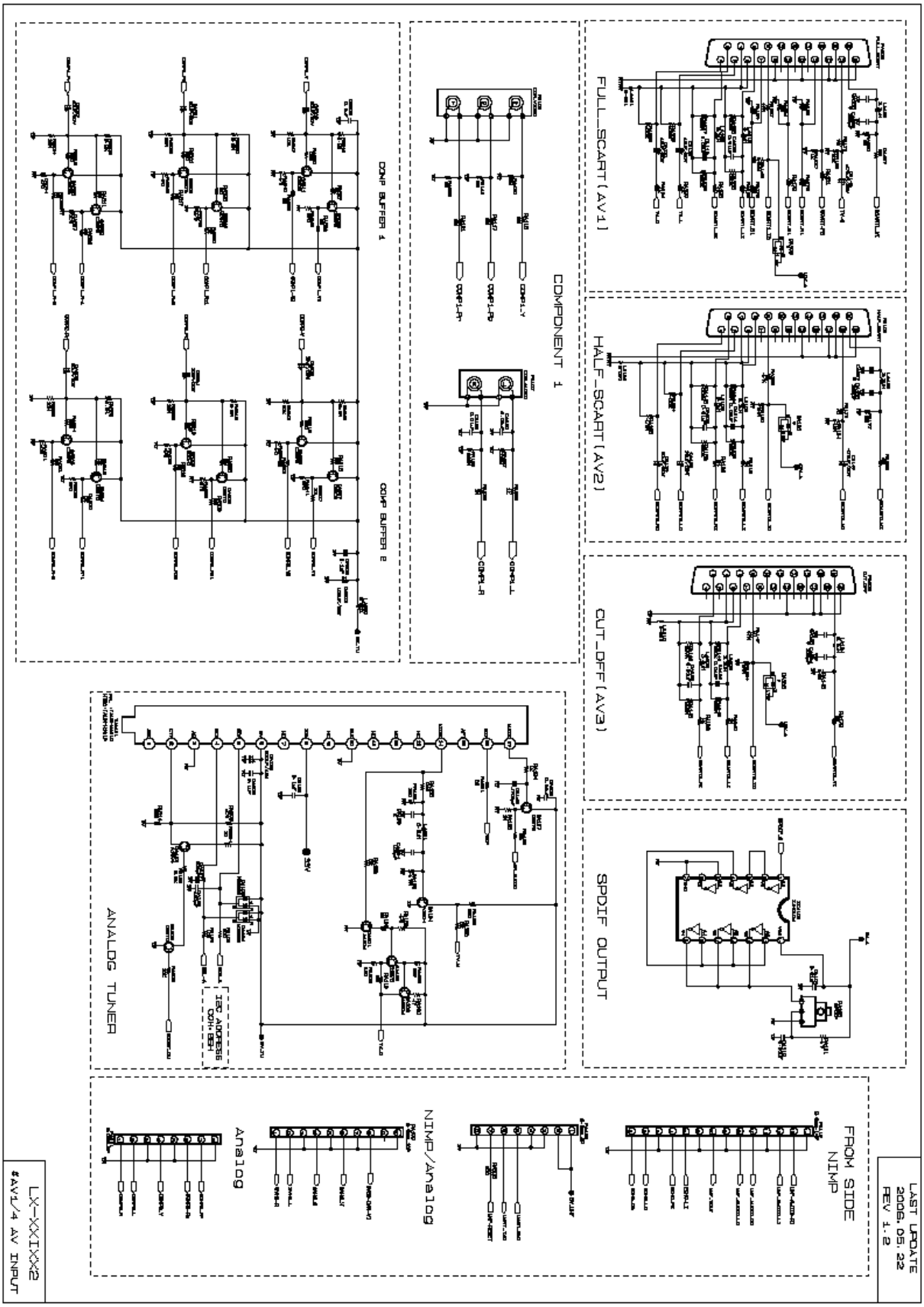

POWER BOARD
PSU06: 40 INCH[X]
PSU05: 46 INCH[X]
INV_ON
DN: HIGH
OFF: LOW
LC-46IEX3
#8/10 POWER
LAST UPDATE
2006.05.22
REV 1.2

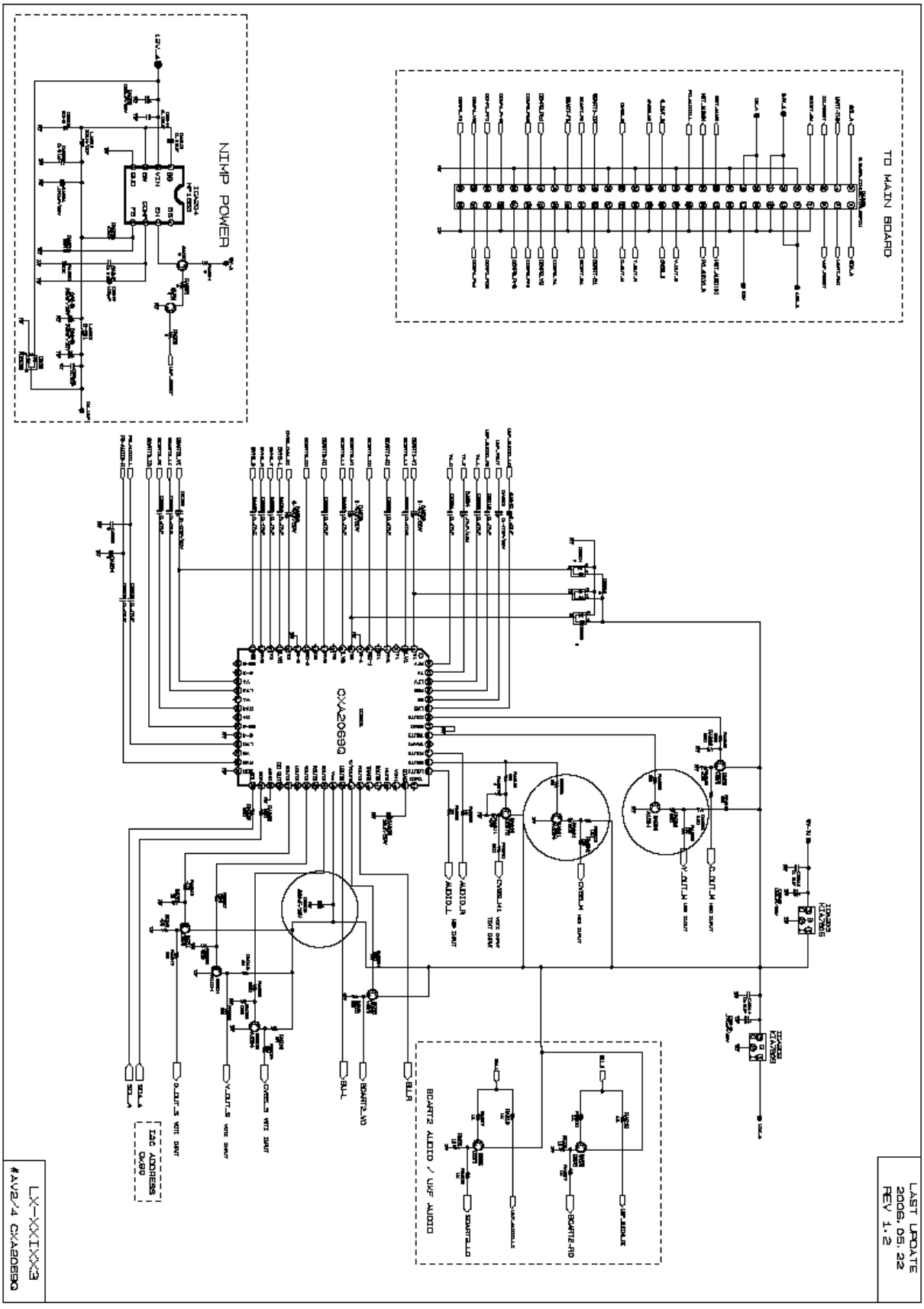

MDIN180
IC9903
MDIN180
VTCI
LAST UPDATE
2006.05.22
REV 1.2
LX-XXIXX3
#9/10 MDIN180

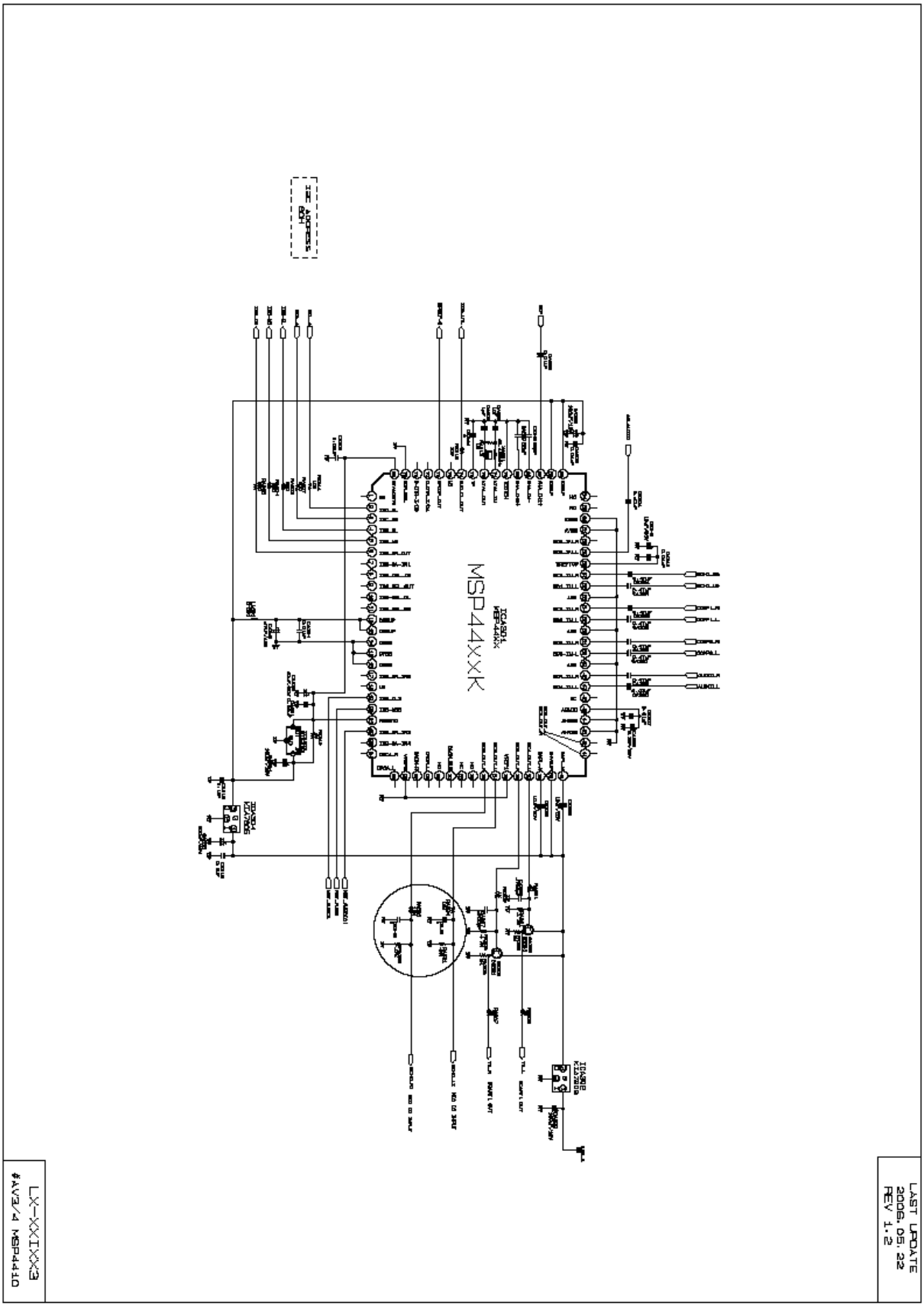


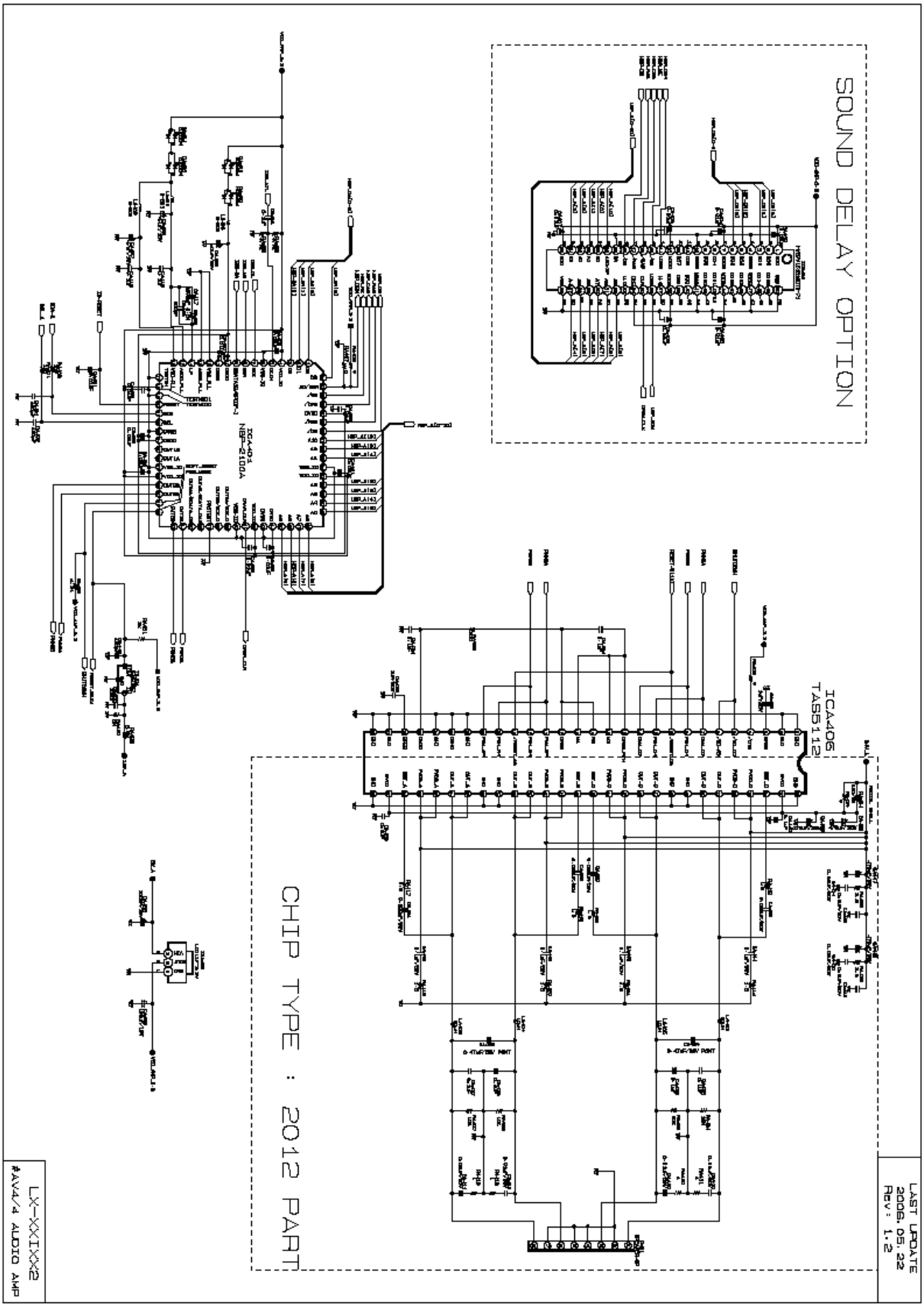
LX-XXIXX2
#10/10 MDI180 SDRAM

LAST UPDATE
2006.05.22
REV 1.2


FULL_SCART(AV1)
HALF_SCART(AV2)
CVI_DFF(AV3)
SPDIF OUTPUT
COMPONENT 1
COMP BUFFER 1
COMP BUFFER 2
ANALOG TUNER
I2C ADDRESS C0H, 8EH
FROM SIDE NIMP
NIMP/Analog
Analog
LAST UPDATE 2006.05.22 REV 1.2
LX-XXIXX2 #AV1/4 AV INPUT

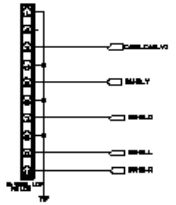

TO MAIN BOARD
NIMP POWER
CXA2069Q
LAST UPDATE
2006.05.22
REV 1.2
LX-XXIXX3
#AV2/4 CXA2069Q

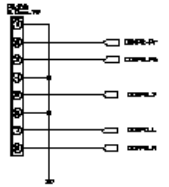

LAST UPDATE
2006.05.22
REV 1.2
LX-XXIXX23
#AV3/4 MSP4410


SOUND DELAY OPTION
CHIP TYPE : 2012 PART
ICA405
TAS5112
LAST UPDATE
2006.05.22
Rev: 1.2
LX-XXIXX2
#AV4/4 AUDIO AMP

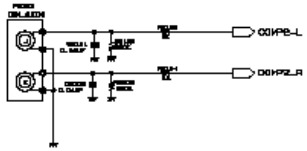
LAST UPDATE
2006.05.22

TO AV



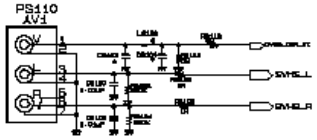


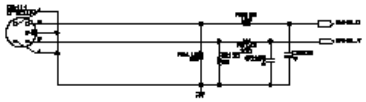
COMPONENT 2



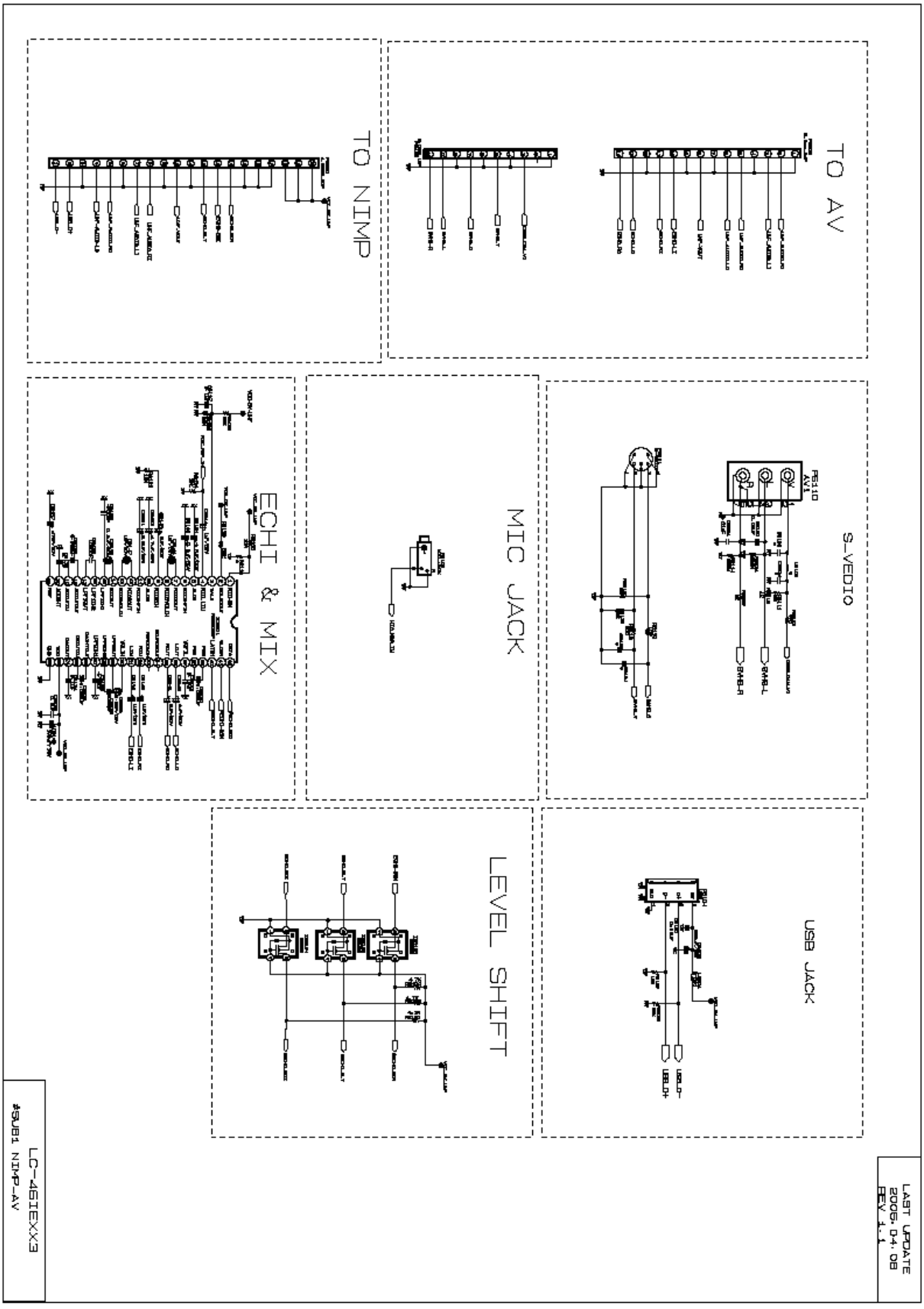
S_VEDIO

PS110
AV-1





LC-46IEXX3
SIDE AV (ANALOG)


TO AV
TO NIMP
S-VEDIO
MIC JACK
ECHI & MIX
USB JACK
LEVEL SHIFT
LAST UPDATE
2005.04.08
REV 1.1
LC-46IEXX3
SUB1 NIMP-AV

LC-46IEXX3
IR PART

LAST UPDATE
2006.2.23

LC-46IE
KEY BUTTON

LAST UPDATE
2006.05.22

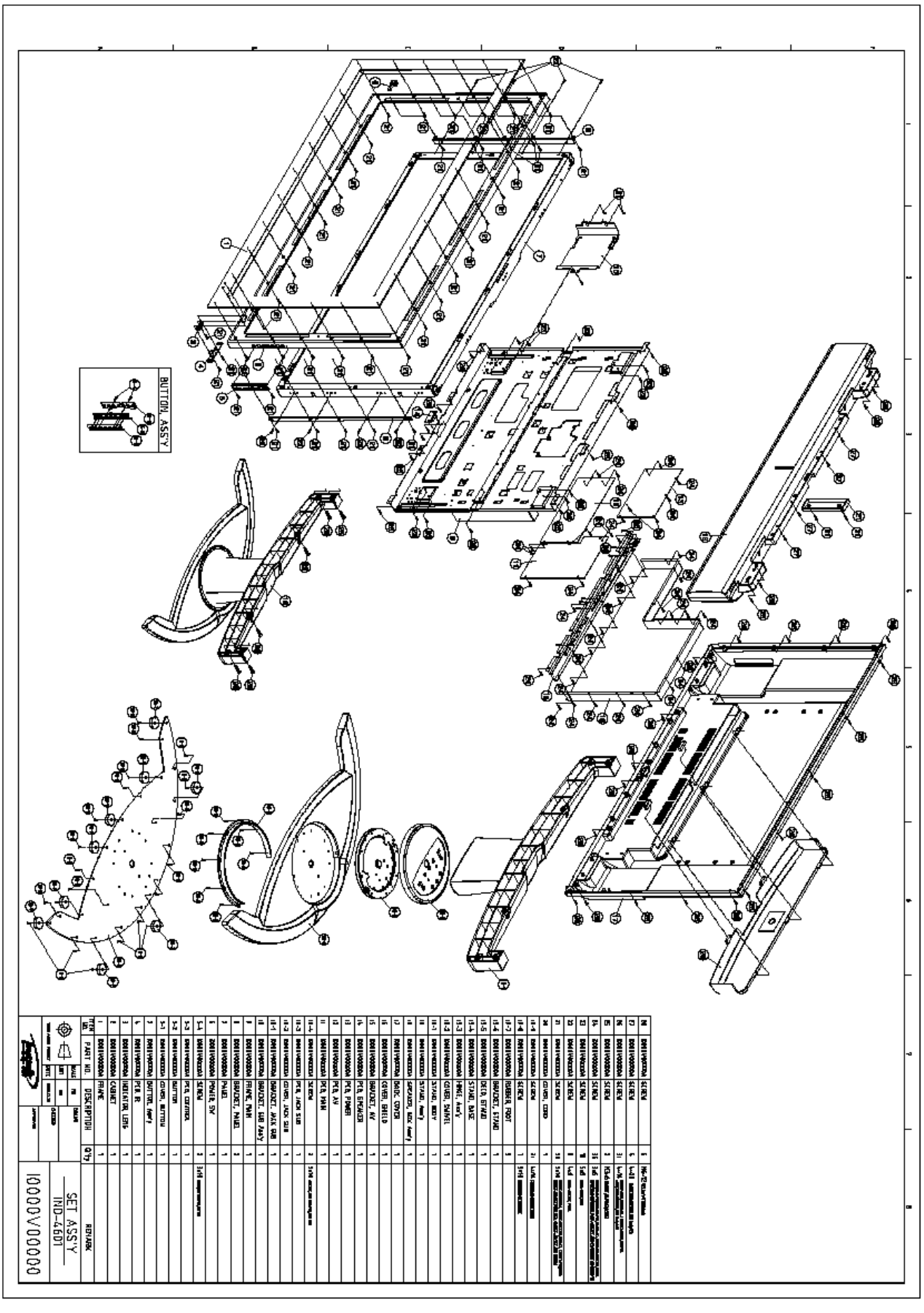
LC-46IE
AUDIO_OUT

LAST UPDATE
2006.05.22

LC-46IEXX3
LAMP&SPEAKER

LAST UPDATE
2006.02.23

10. EXPLODED VIEW



11. REPLACEMENT PARTS LIST

46 inch

Item	Specification	Location
MAIN PCB ASS'Y	LN-46IEA3 MAIN PCB REV 1.1 ASS'Y	ASS01
MICOM ASS'Y	LN-46IEA3 MEMORY ASS'Y	IC601;
MICOM LABEL	LN-46IEA3 12*10 MICOM LABEL	IC601;
IC FLASH MEMORY	EN29LV040-70JC(PLCC) 4Mb EON	IC601;
MANUAL INSERT	LN-46IEA3 MAIN MANUAL_INSERT REV 1.1	ASS02
CRYSTAL	HC49U RADIAL 27.000MHZ 25ppm 20 pF BK	X900;
CRYSTAL	HC49U KJE RADIAL 14.31818MHz +/-30 PPM	X500;
CRYSTAL	HC49U RADIAL 20.2500MHZ 30ppm 16 pF BK	X400;
JACK, EAR-PHONE	SJ3513-3A, (EAR-PHONE) NINE NEW ELECTRONICS CO.	P105;
WAFER	SMW200-13P (DIP) , YEONHO	P803;
WAFER	SMW200-15P (DIP) , YEONHO	P804;P805
WAFER	SMW200-03P (DIP) , YEONHO	P407;
WAFER	SMW200-11P (DIP) , YEONHO	P104;
JACK, D_SUB	D_SUB 15P FEMALE R/A DAH-15RF-4B4-FN, WOOYOUNG(SHORT BODY)	P101;
JACK, HDMI	HDMI Receptacle through hole type,HA HA 일렉콤	P103,P106;
WAFER	SMW200-14P (DIP) , YEONHO	P801,P802;
HEADER PIN	2.54MM PITCH RIGHT ANGLE 2X30 60PIN MALE	P210;
SMD_BOTTOM	LN-40/46IEA3 MAIN SMD_BOTTOM REV 1.1	ASS03
CHIP RESISTOR	0 OHM 1/8W 2012 5% D (000)	R501,R329,R331,R332,R526,R527,R528;
CHIP RESISTOR	100 OHM 1/8W 2012 5% D (101)	R103,R105,R415,R416,R429,R430,
		R433,R434,,R530;
CHIP RESISTOR	1K OHM 1/8W 2012 5% D (102)	R119,R157,R163,R164,R509,R511;
CHIP RESISTOR	910K OHM 1/8W 2012 5% D (914)	R230;
CHIP RESISTOR	10K OHM 1/8W 2012 5% D (103)	R109,R110,R111,R112,R155,R156,
CHIP RESISTOR	2.7K OHM 1/8W 2012 5% D (272)	R442,R443
Item	Specification	Location
CHIP RESISTOR	22 OHM 1/8W 2012 5% D (220)	R319,R321,R322,R603,R604,R605,R606,R909,R910,R911
CHIP RESISTOR	2K OHM 1/8W 2012 5% D (202)	R115,R117;
CHIP RESISTOR	33 OHM 1/8W 2012 5% D (330)	R500,R520,R521,R522;

Item	Specification	Location
CHIP RESISTOR	330 OHM 1/8W 2012 5% D (331)	R901,R913,R932,R943,R1003
CHIP RESISTOR	390 OHM 1/8W 2012 5% D (391)	R523;
CHIP RESISTOR	4.3K OHM 1/8W 2012 5% D (432)	R941
CHIP RESISTOR	4.7K OHM 1/8W 2012 5% D (472)	R460,R465,R470,R165;
CHIP RESISTOR	220K OHM 1/8W 2012 5% D (224)	R122,R123;
CHIP RESISTOR	47K OHM 1/8W 2012 5% D (473)	R607
CHIP RESISTOR	47 OHM 1/8W 2012 5% D (470)	R323;
CHIP RESISTOR	620 OHM 1/8W 2012 5% D (621)	R342;
CHIP CAPACITORS	0.01uF 50V 10% 2012 R/TP (103)	C402,C403,C405,C901;C119;C120
CHIP CAPACITORS	0.047uF 50V 10% 2012 R/TP (473)	C503,C504,C505,C506,C507,C511,C512,C513
CHIP CAPACITORS	0.1uF 50V 20% 2012 R/TP (104)	C310,C311,C312,C314,C315,C318,C320,C321,C322,
		C324,C325,C329,C333,C334,C336,C340,C341,C342,C379,
		C343,C345,C347,C348,C350,C351,C352,C353,C354,C356,
		C357,C358,C360,C361,C362,C413,C415,C416,C421,C424,
		C425,C427,C431,C514,C515,C516,C517,C518,C519,C122,
		C520,C521,C522,C523,C524,C527,C530,C531,C536,C537,
		C539,C540,C541,C542,C543,C544,C545,C546,C547,C548,
		C550,C551,C577,C578,C579,C601,C602,C603,C606,C609,
		C610,C611,C612,C613,C615,C616,C617,C618,C619,C628,
		C810,C846,C847,C848,C849,C850,C852,C853,C861,C608,
		C905,C906,C908,C909,C912,C913,C914,C915,C931,C932,
		C1003,C1006,C1010,C1017;
CHIP CAPACITORS	1000pF 50V 10% 2012 R/TP (102)	C552
CHIP BEAD	CHIP BEAD 3216 501 (500Ω)	L306,L411,L412,L501,L503,L504,L505,L506,L509,L605,
		L606,L803,L808,L815,L901,L902,L903;
TR	MMBT2222LT1G, ON SEMI, SOT-23 (Pb-Free), switching (KTC3875 대치)	Q102,Q105,Q106,Q107,Q402;
AUTO INSERT_RADIAL	LN-40/46IEA3 MAIN AUTO_INSERT_RADIAL REV 1.1	ASS04
RADIAL REGISTER	8.2 OHM 2 W 5.00% Super Mini Register	R524,R525,R944,R945;
AL EL CAPACITORS	4.7uF STD 50V M FL TP5 (5X11 85℃)	C475;
AL EL CAPACITORS	10uF STD 50V M FL TP5 (5X11 85℃)	C115,C375,C452,C831,C121;
AL EL CAPACITORS	47uF STD 16V M FL TP5 (5X9 85℃)	C114,C714;

Item	Specification	Location
AL EL CAPACITORS	47uF STD 50V M FL TP5 (6.3X11 85℃)	C113,C117,C118,C448,C484,C485;
AL EL CAPACITORS	100uF STD 16V M FL TP5 (6.3X11 85℃)	C364,C366,C368,C369,C370,C371,C372,C558,C559,C561,
		C562,C565,C566,C567,C569,C570,C571,C623,C625,C626,
		C855,C856,C857,C920,C921,C922,C444,C923,C924,C925,
		C926,C377;
AL EL CAPACITORS	220uF STD 10V M FL TP5 (6.3X11 85℃)	C454,C455,C456,C457,C827;
AL EL CAPACITORS	220uF STD 16V M FL TP5 (8X11.5 85℃)	C573,C828,C859;
AL EL CAPACITORS	220uF STD 25V M FL TP5 (8X11.5 85℃)	C826;
AL EL CAPACITORS	470uF STD 35V M FL TP5 (10X16 85℃)	C837;C832,C860;
AL EL CAPACITORS	470uF STD 16V M FL TP5 (10X12.5 85℃)	C576,C624,C862,C863;
SMD_TOP	LN-40/46IEA3 MAIN SMD_TOP REV 1.1	ASS05
PCB	LC-40/46IEA3 MAIN REV1.1	
CHIP RESISTOR	0 OHM 1/10W 1608 5% D (000)	R303,R801,R902,R903,R946,R418,R402,R403,R404;
CHIP RESISTOR	150 OHM 1/10W 1608 5% D (151)	R419,R422,R602;
CHIP RESISTOR	1.5K OHM 1/10W 1608 5% D (152)	R101;
CHIP RESISTOR	150K OHM 1/10W 1608 5% D (154)	R498;
CHIP RESISTOR	160 OHM 1/10W 1608 5% D (161)	R807;
CHIP RESISTOR	1.6K OHM 1/10W 1608 5% D (162)	R133;
CHIP RESISTOR	1.8K OHM 1/10W 1608 5% D (182)	R102;
CHIP RESISTOR	10 OHM 1/10W 1608 5% D (100)	R450;
CHIP RESISTOR	100 OHM 1/10W 1608 5% D (101)	R104,R108,R132,R153,R154,R304,R306,R307,R308,R408,
		R409,R410,R411,R412,R413,R414,R420,R421,R423,R426,
		R428,R431,R432,R436,R495,R505,R601,R427,R804,R805,
		R904,R905,R906,R340,R496;
CHIP RESISTOR	10K OHM 1/10W 1608 5% D (103)	R309,R508,R714,
CHIP RESISTOR	1K OHM 1/10W 1608 5% D (102)	R118,R438,R439,R440,R441,R406;
CHIP RESISTOR	1M OHM 1/10W 1608 5% D (105)	R907
CHIP RESISTOR	2.7K OHM 1/10W 1608 5% D (272)	R134
CHIP RESISTOR	22 OHM 1/10W 1608 5% D (220)	R335,R336,R337,R400,R512,R513,R514,R515,R516,R517,

Item	Specification	Location
CHIP RESISTOR	200 OHM 1/10W 1608 5% D (201)	R135,R136,R137,R138,R139,R140,R141,R142,R143,R144,
		R145,R146,R147,R148,R149,R150,R316,R317,R318
CHIP RESISTOR	220 OHM 1/10W 1608 5% D (221)	R120,R121,R124,R125,R809,R485;
CHIP RESISTOR	2.2K OHM 1/10W 1608 5% D (222)	R126,R127;
CHIP RESISTOR	22K OHM 1/10W 1608 5% D (223)	R453;
CHIP RESISTOR	270 OHM 1/10W 1608 5% D (271)	R151;
CHIP RESISTOR	3.3K OHM 1/10W 1608 5% D (332)	R158,R159,R338,R339;
CHIP RESISTOR	300 OHM 1/10W 1608 5% D (301)	R311;
CHIP RESISTOR	330 OHM 1/10W 1608 5% D (331)	R914,R917,R927,R928,R929,R933,R999,R1004,R948,R949;
CHIP RESISTOR	4.3K OHM 1/10W 1608 5% D (432)	R942
CHIP RESISTOR	4.7K OHM 1/10W 1608 5% D (472)	R286,R287,R417,R455,R458,R461,R462,R463,R401,R497
		R464,R466,R468,R469,R472,R473,R474,R494,R721,R1006,
		R160,R161;
CHIP RESISTOR	8.2K OHM 1/10W 1608 5% D (822)	R454,R456;
CHIP RESISTOR	47K OHM 1/10W 1608 5% D (473)	R128,R325,R326,R327
CHIP RESISTOR	47 OHM 1/10W 1608 5% D (470)	R320;
CHIP RESISTOR	56 OHM 1/10W 1608 5% D (560)	R152;
CHIP RESISTOR	68K OHM 1/10W 1608 5% D (683)	R722;
CHIP RESISTOR	510 OHM 1/10W 1608 5% D (511)	R341,R313,R310,R314,R162;
CHIP RESISTOR	75 OHM 1/10W 1608 5% D (750)	R129,R130,R131;
CHIP RESISTOR	82 OHM 1/10W 1608 5% D (820)	R291,R292,R293,R294,R295,R296,R811;
CHIP ARRAY RESISTOR	22 OHM ARRAY 1/8W 3216 5% (220)	AR301,AR302,AR501,AR502,AR503,AR504,AR505,AR506,AR507,AR508,
		AR509,AR510,AR511,AR512,AR513,AR901,AR902,AR903,AR904,AR905,
		AR906
CHIP ARRAY RESISTOR	33 OHM ARRAY 1/8W 3216 5% (330)	AR909,AR910,AR911,AR912;
CHIP CAPACITORS	0.01uF 50V 10% 1608 R/TP (103)	C300,C301,C302,C303,C304,C305,C306,C307,C308,C309,
		C501,C701,C900
CHIP CAPACITORS	0.047uF 50V 10% 1608 R/TP (473)	C502,C508,C509,C510
CHIP CAPACITORS	0.1uF 50V 20% 1608 R/TP (104)	C106,C313,C316,C317,C323,C326,C327,C328,C332,C335,
		C337,C338,C339,C344,C346,C349,C355,C359,C363,C412,
		C420,C422,C423,C428,C430,C435,C528,C529,C532,C533,
		C614,C123,C124,C319;
CHIP CAPACITORS	0.22uF 16V 20% 1608 R/TP (224)	C436,C437,C438
CHIP CAPACITORS	1000pF 50V 10% 1608 R/TP (102)	C112,C439,C553,C917,C918

Item	Specification	Location
CHIP CAPACITORS	8pF 50V 10% 1608 R/TP (080)	C575;
CHIP CAPACITORS	10pF 50V 10% 1608 R/TP (100)	C574,C927,C928;
CHIP CAPACITORS	15pF 50V 10% 1608 R/TP (150)	C453,C930;
CHIP CAPACITORS	22pF 50V 10% 1608 R/TP (220)	C374,C458,C459;
CHIP CAPACITORS	33pF 50V 10% 1608 R/TP (330)	C376;
CHIP CAPACITORS	39pF 50V 10% 1608 R/TP (390)	C373;
CRYSTAL	SX-1 24.576000MHZ +/-30ppm 16 pF TA	X300;
IC EEPROM	AT24C32 SOP8 ATMEL	IC408;
IC EEPROM	AT24C02N-10SI-1.8 8S1 ATMEL	IC102,IC104,IC109;
IC TTL	74HCT14D Hex inveting Schmitt trigger	IC101;
IC TTL	74LVC04AD SO14 PHILIPS	IC309
IC REG	AZ1086H-1.5V	IC302;
IC REG	AZ1086H-3.3V	IC303;
CHIP BEAD	CHIP BEAD 3216 501 (500Ω)	L301,L302,L707,L713,L403,L305;
CHIP BEAD	CHIP BEAD 2012 800 (80Ω)	L107,L108,L109;
TR	BSS83, PHILIPS, SOT-143B, n-ch switching tr	IC105,IC106,IC202,IC203,IC307,IC308;
TR	MMBT2222LT1G, ON SEMI, SOT-23 (Pb-Free), switching (KTC3875 대치)	Q103,Q401,Q403,Q711,Q405;
TR, FET	SI4925DY, TEMIC, SO-8, 30V 6.1A	IC704;
IC SRAM	K6X8008T2B-TF70 TSOP32 8Mb SEC	IC603;
IC SDRAM	HY57V161610DTC-7,8	IC304;
IC SDRAM	HY57V643220DTP-6 TSOP-II 86pin, HYNIX	IC1002;
IC DDR SDRAM	HY5DU283222Q-4, DDR SDRAM LQFP 100P	IC602;
DIODE, SWITCHING	BAV70LT1G, ON SEMI, SOT-23 high speed switching (KDS184 대치)	D101,D113;
DIODE, SWITCHING	BAV99LT1G, ON SEMI,SOT-23 (Pb-Free) high speed switching (KDS226 대치)	D404;
TR	MMBT2907ALT1G, ON SEMI, SOT-23 (Pb-Free), switching (KTA1504 대치)	Q404;
IC Voltage Detector	KIA7027AF 3P SOT-89 R/TP KEC	IC401;
IC	KIA78R33F DPAK-5	IC110;
IC REG	LD1117S18TR SOT-223 1.8V 800mA, ST	IC402,IC503,IC901;
IC REG	LD1117S25TR SOT-223 2.5V 800mA, ST	IC607;
IC REG	LD1117S33TR SOT-223 3.3V 800mA, ST	IC403,IC404,IC504,IC505,IC902;

Item	Specification	Location
IC	M62320FP,I/O EXPANDER 16P SOP	IC405,IC406;
IC	MDIN-180 BGA256,Macro image technology	IC903;
IC SCALER	MST5181A, MSTAR	IC510;
IC HDMI SWITCH	PI3HDMI412ZHEX PERICOM	IC107;
IC 5CH SWITCH	PI3V512QE QSOP24 PERICOM	IC108,
IC Video Processor	uPD64015A LQFP 176P NEC	IC306;
IC,MICRO CONTROLLER	VCT49xyl,F2 MICRONAS 144P QFP MICOM&VSP&MSP IC	IC407;
PLCC AMP (SOCKET)	AMP 32PIN 2.54MM PLCC CCSD-32T-SM (SMD)	IC601
WAFER	FW12523-30(S) 후성	P701;
WAFER	1001-31MV (SMD) 1.25MM 삼원 FT	P213;
IC REG	KIA7809AF 2P DPAK R/TP KEC	IC801;
IC REG	KIA7805AF 2P DPAK R/TP KEC	IC802;
AV PCB ASS'Y	**LN-40/46IEA3 AV PCB REV 1.1 ASS'Y**	ASS06
JACK, TUNER	UCT-PA-002(PAL RF JACK), UGCOM	TUA101;
MANUAL INSERT	LN-40/46IEA3 AV MANUAL_INSERT REV 1.1	ASS07
CRYSTAL	HC49U RADIAL 18.432MHZ 30ppm 10 pF BK	XA301;
HEAT SINK	30mmX35mm, 14mm	ICA406
INDUCTOR	10uH DBF-1310A(50W max)	LA402,LA403,LA404,LA405;
POWER INDUCTOR	33uH, CPS-01-330(CH-8010S), GET 170	LA201
JACK, RCA	PPJ137A (RCA_L/R WITH S/W RD-WH), PARK	PA107;
JACK, RCA	PPJ128A-1 (A/V 3P WITH S/W GR-BU-RD), PARK	PA101;
JACK, SCART	SHIELD SCART (SM-024)	PA102,PA103,PA108;
SPDIF	TOTX178A, TOSHIBA	PA106;
WAFER	SMW200-08P (DIP) , YEONHO	PA112,PA401;
WAFER	SMW200-10P (DIP) , YEONHO	PA109
WAFER	SMW200-14P (DIP) , YEONHO	PA110
HEADER PIN	2.54MM PITCH RIGHT ANGLE 2X30 60PIN FEMALE	PA200
TUNER	TAUM-W101P LG INOTEK MULTI FS MINI 4	TUA101;
AUTO INSERT_RADIAL	LN-40/46IEA3 AV AUTO_INSERT_RADIAL REV 1.1	ASS08

Item	Specification	Location
AL EL CAPACITORS	0.47uF STD 50V M FL TP5 (5X11 85℃)	CA203,CA232,CA233,CA235,CA236;
AL EL CAPACITORS	220uF STD 16V M FL TP5 (8X11.5 85℃)	CA242,CA255;
AL EL CAPACITORS	100uF STD 16V M FL TP5 (6.3X11 85℃)	CA138,CA248,CA249,CA332,CA333,CA334,CA335,CA452,CA453,CA503;
AL EL CAPACITORS	10uF STD 50V M FL TP5 (5X11 85℃)	CA131,CA132,CA133,CA134,CA238,CA328,CA336,CA339,CA340,CA506,
		CA501,CA507;
AL EL CAPACITORS	220uF STD 25V M FL TP5 (8X11.5 85℃)	CA250
AL EL CAPACITORS	3.3uF STD 50V M FL TP5 (5X11 85℃)	CA338
AL EL CAPACITORS	470uF STD 16V M FL TP5 (10X12.5 85℃)	CA251,CA240;
AL EL CAPACITORS	470uF STD 35V M FL TP5 (10X16 85℃)	CA146,CA147,CA447,CA448,CA465,CA466
AL EL CAPACITORS	47uF STD 16V M FL TP5 (5X9 85℃)	CA234,CA341,CA455,CA456,CA457
CAPACITOR,FIXED FILM	0.47uF 63V 5% PCMT 365	CA463,CA464;
RADIAL REGISTER	100 OHM 2 W 5.00% Super Mini Register	RA404;
SMD_TOP	LN-40/46IEA3 AV SMD_TOP REV 1.1	ASS09
PCB	LC-40/46IEA3 AV REV1.0	
CHIP RESISTOR	0 OHM 1/10W 1608 5% D (000)	RA100,RA407;
CHIP RESISTOR	1 OHM 1/8W 2012 5% D (010)	RA410,RA411,RA412,RA413;
CHIP RESISTOR	1.5 OHM 1/8W 2012 5% D (1R5)	RA414,RA415,RA416,RA417,RA418,RA419,RA420,RA421;
CHIP RESISTOR	10 OHM 1/10W 1608 5% D (100)	RA524;
CHIP RESISTOR	100 OHM 1/10W 1608 5% D (101)	RA102,RA103,RA314,RA317,RA318,RA401,RA402,RA422,RA505,RA203;
		RA221,RA110
CHIP RESISTOR	10K OHM 1/10W 1608 5% D (103)	RA104,RA105,RA155,RA250,RA547,RA533,RA534,RA323,RA324;
CHIP RESISTOR	10K OHM 1/8W 2012 5% D (103)	RA424,RA426,RA425,RA427
CHIP RESISTOR	150 OHM 1/10W 1608 5% D (151)	RA108;
CHIP RESISTOR	15K OHM 1/10W 1608 5% D (153)	RA251;
CHIP RESISTOR	180 OHM 1/10W 1608 5% D (181)	RA223;
CHIP RESISTOR	200 OHM 1/10W 1608 5% D (201)	RA152,RA201,RA230,RA240;

Item	Specification	Location
CHIP RESISTOR	270 OHM 1/10W 1608 5% D (271)	RA546,RA549,RA537;
CHIP RESISTOR	300 OHM 1/10W 1608 5% D (301)	RA159
CHIP RESISTOR	1K OHM 1/10W 1608 5% D (102)	RA113,RA114,RA118,RA120,RA122,RA124,RA125,RA126,RA127,RA132,
		RA139,RA140,RA196,RA206,RA207,RA208,RA210,RA212,RA215,RA216,
		RA217,RA218,RA219,RA220,RA222,RA238,RA306,RA307,RA309,RA310,
		RA311;
CHIP RESISTOR	1M OHM 1/10W 1608 5% D (105)	RA313
CHIP RESISTOR	2.2K OHM 1/10W 1608 5% D (222)	RA128,
CHIP RESISTOR	220 OHM 1/10W 1608 5% D (221)	RA129,RA224,RA225,RA226,RA303,RA304,RA305,RA530,RA501,RA513;
CHIP RESISTOR	220K OHM 1/10W 1608 5% D (224)	RA131,RA133,RA135,RA136,RA137,RA138,RA141,RA142,RA144,RA145
		RA146,RA148,RA195,RA197
CHIP RESISTOR	24K OHM 1/10W 1608 5% D (243)	RA149,RA150,RA154
CHIP RESISTOR	2K OHM 1/10W 1608 5% D (202)	RA151,RA308,RA312
CHIP RESISTOR	3.3 OHM 1/8W 2012 5% D (3R3)	RA428,RA429
CHIP RESISTOR	33 OHM 1/10W 1608 5% D (330)	RA529;
CHIP RESISTOR	3.3K OHM 1/10W 1608 5% D (332)	RA432,
CHIP RESISTOR	240 OHM 1/10W 1608 5% D (241)	RA153
CHIP RESISTOR	3K OHM 1/10W 1608 5% D (302)	RA430,RA431
CHIP RESISTOR	4.7 OHM 1/10W 1608 5% D (4R7)	RA101
CHIP RESISTOR	4.7K OHM 1/10W 1608 5% D (472)	RA320,RA321,RA403,RA405,RA406,RA193;
CHIP RESISTOR	470 OHM 1/10W 1608 5% D (471)	RA241,RA242,RA243,RA244,RA540,RA545,RA544,RA506;
CHIP RESISTOR	470K OHM 1/10W 1608 5% D (474)	RA162,RA163,RA164,RA165
CHIP RESISTOR	47K OHM 1/10W 1608 5% D (473)	RA147,RA166,RA167,RA252,RA331,RA332;
CHIP RESISTOR	560 OHM 1/10W 1608 5% D (561)	RA229,RA233,RA514,RA227,RA228;
CHIP RESISTOR	7.5K OHM 1/10W 1608 5% D (752)	RA433;
CHIP RESISTOR	680 OHM 1/10W 1608 5% D (681)	RA246,RA239;
CHIP RESISTOR	390 OHM 1/10W 1608 5% D (391)	RA169;
CHIP RESISTOR	75 OHM 1/10W 1608 5% D (750)	RA170,RA171;
CHIP RESISTOR	82 OHM 1/10W 1608 5% D (820)	RA109,RA115,RA116,RA117,RA121,RA130,RA143,RA176,RA177,RA178
		RA179,RA180,RA184,RA186,RA188,RA189,RA191,RA194,RA198,RA199
		RA202,RA234,RA235,RA236,RA247,RA248,RA527,RA526,RA525,RA517
		RA511,RA528,RA522,RA508,RA232,RA205,RA245,RA157,RA158,RA172
CHIP RESISTOR	8.2K OHM 1/10W 1608 5% D (822)	RA542,RA520,RA509;
CHIP CAPACITORS	0.01uF 50V 10% 1608 R/TP (103)	CA102,CA104,CA106,CA111,CA112,CA119,CA122,CA161,CA162CA190,
		CA191,CA243,CA244,CA245,CA252,CA306,CA307,CA308,CA309,CA310,
		CA311,CA314,CA420,CA421,CA422,CA425,CA426,CA427,CA428,CA429,

Item	Specification	Location
		CA431,CA451,CA404,CA405,CA406,CA407,CA408,CA409;
CHIP CAPACITORS	0.01uF 50V 10% 2012 R/TP (103)	CA410,CA411,CA412,CA413,CA414,CA415;
CHIP CAPACITORS	0.022uF 50V 10% 2012 R/TP (223)	CA459,CA460,CA461,CA462;
CHIP CAPACITORS	0.1uF 50V 20% 1608 R/TP (104)	CA108,CA150,CA214,CA241,CA246,CA315,CA316,CA403,CA416,CA418,
		CA424,CA434,CA509,CA502;
CHIP CAPACITORS	0.1uF 50V 20% 2012 R/TP (104)	CA432,CA436,CA437,CA438,CA439,CA440,CA441,CA442,CA443,CA444
		CA445,CA446;
CHIP CAPACITORS	0.47uF 16V 20% 1608 R/TP (474)	CA200,CA201,CA218,CA219,CA220,CA221,CA222,CA223,CA224,CA225
		CA226,CA227,CA228,CA229,CA230,CA231,CA304,CA318,CA319,CA320
		CA321,CA322,CA323,CA324,CA325;
CHIP CAPACITORS	100pF 50V 10% 1608 R/TP (101)	CA127,CA128,CA247,CA419,CA449,CA450,CA401,CA402;
CHIP CAPACITORS	1200pF 50V 10% 1608 R/TP (122)	CA417;
CHIP CAPACITORS	27pF 50V 10% 1608 R/TP (270)	CA164;
CHIP CAPACITORS	1pF 50V 10% 1608 R/TP (010)	CA305,CA326;
CHIP CAPACITORS	1uF 16V 20% 2012 R/TP (105)	CA435,CA458;
CHIP CAPACITORS	330pF 50V 10% 1608 R/TP (331)	CA184,CA186,CA189;
CHIP CAPACITORS	4700pF 50V 10% 1608 R/TP (472)	CA145,CA329,CA337;
CHIP CAPACITORS	56pF 50V 10% 1608 R/TP (560)	CA327,CA342;
CHIP INDUCTOR	3.3uH Inductor 50mA 2012 20%	LA102,LA105,LA106,LA108,LA109,LA119,LA121,LA124,LA125,LA126;
IC TTL	74HCU04D SO14 PHILIPS	ICA101;
CHIP BEAD	CHIP BEAD 3216 501 (500Ω)	LA101,LA103,LA110,LA202,LA301,LA401,LA406,LA408,LA500;
DIODE, SHOTTKEY RECTIFERS	MBRS340T3G, ON semi, 40V/3A, SMC-403-03	DA205;
TR	MMBT2907ALT1G, ON SEMI, SOT-23 (Pb-Free), switching (KTA1504 대치)	QA101,QA102,QA103,QA104,QA201,QA202,QA203,QA204;
TR	MMBT2222LT1G, ON SEMI, SOT-23 (Pb-Free), switching (KTC3875 대치)	QA105,QA106,QA107,QA206,QA208,QA209,QA210,QA211,QA212,QA304,
		QA508,QA511,QA510,QA501,QA509,QA505;
TR	MMBTH10LT1G, ON SEMI, SOT-23 (Pb-Free), VHF band amp (KTC3881 대치)	QA301,QA302;
IC	CXA2069Q QFP64 BK SONY	ICA201;
IC SDRAM	HY57V161610DTC-7,8	ICA402;
DIODE, SWITCHING	BAV70LT1G, ON SEMI, SOT-23 high speed switching (KDS184 대치)	DA401,DA402,DA403,DA404;
DIODE, SWITCHING	BAV99LT1G, ON SEMI,SOT-23 (Pb-Free) high speed switching (KDS226 대치)	DA102,DA104,DA301,D203;

Item	Specification	Location
IC Voltage Detector	KIA7027AF 3P SOT-89 R/TP KEC	IC404;
IC Voltage Detector	KIA7042AF 3P SOT-89 R/TP KEC	ICA303;
IC REG	KIA7805AF 2P DPAK R/TP KEC	ICA203,ICA304;
IC REG	KIA7808AF 2P DPAK R/TP KEC	ICA302;
IC REG	KIA7809AF 2P DPAK R/TP KEC	ICA202;
IC REG	LD1117S33TR SOT-223 3.3V 800mA, ST	ICA405;
IC,DC-DC CONVERTER	MP1583DN 8P TSOP R/TP DC-DC CONVERTER	ICA204;
IC Sound Processor	MSP4450K PQFP80 TRAY MICRONAS	ICA301;
IC AMP PROCESSOR	NSP2100A TQFP64 NEOFIDELITY	ICA401;
IC AUDIO AMP	NSP(TAS)5112DFD TSSOP56 TI	ICA406;
AUDIO OUT PCB ASS'Y	**LC-40/46IEA3 AUDIO OUT PCB REV 1.0 ASS'Y**	ASS013
MANUAL INSERT	LC-40/46IEA3 AUDIO OUT MANUAL_INSERT REV 1.0	ASS014
PCB	LC-40/46IEA3 AUDIO OUT REV1.1 060307	
WAFER	SMW200-02P (DIP) , YEONHO	PC103;
WAFER	SMW200-08P (DIP) , YEONHO	PC102;
WAFER	SMW200-09P (DIP) , YEONHO	PC101;
LAMP PCB ASS'Y	**L*-40/46I*A* LAMP PCB REV 1.2 ASS'Y**	ASS015
MANUAL INSERT	LC-40/46IEA3 LAMP MANUAL_INSERT REV 1.2	
PCB	LC-40/46IEA3 LAMP REV1.2 060627	
WAFER	SMAW200-09P (DIP) , YEONHO	PL101
WAFER	SMAW200-03P (DIP) , YEONHO	PL102
WAFER	SMWA200-04P (DIP) , YEONHO	PL103
DIODE, LED	LED BLUE(고휘도), LTL-2F3CBK5	PL104
SMD_TOP	L*-32I*A* LAMP SMD-_TOP REV 1.2	
CHIP RESISTOR	82 OHM 1/10W 1608 5% D (820)	PR100
KEY PCB ASS'Y	**LC-40/46IEA3 KEY PCB REV 1.1 ASS'Y**	ASS017
MANUAL INSERT	LC-40/46IEA3 KEY MANUAL_INSERT REV 1.1	ASS018
TACT_SW	TACT 2LEAD 160G(TA) 140-313B, (DIOS)	SWK101,SWK102,SWK103,SWK104,SWK105,SWK106,SWK107
SMD_TOP	LC-40/46IEA3 KEY SMD_TOP REV 1.1	ASS019

Item	Specification	Location
PCB	L*-32/40/46IEA3 KEY REV1.1_060420	RK01
CHIP RESISTOR	0 OHM 1/10W 1608 5% D (000)	RK106
CHIP RESISTOR	1.6K OHM 1/10W 1608 5% D (162)	RK105
CHIP RESISTOR	1.8K OHM 1/10W 1608 5% D (182)	RK101
CHIP RESISTOR	2.2K OHM 1/10W 1608 5% D (222)	RK104
CHIP RESISTOR	680 OHM 1/10W 1608 5% D (681)	RK103
CHIP RESISTOR	910 OHM 1/10W 1608 5% D (911)	RK102
CHIP CAPACITORS	0.1uF 50V 20% 1608 R/TP (104)	CK101
WAFER	12505WR-08 (SMD) , YEONHO	PK103
WAFER	12505WR-11 (SMD) , YEONHO	PK101
IR PCB ASS'Y	LC-40/46IEA3 IR PCB REV 1.1 ASS'Y	ASS019
MANUAL INSERT	LC-40/46IEA3 IR MANUAL_INSERT REV 1.1	ASS020
IR Receiver Modules	TSOP1238RF1, VISHAY	IR101
DIODE, dual color LED lamp	SAM5270, kwang (5.8 x 22), dual color LED (red, green)	DI101
SMD_TOP	LC-40/46IEA3 IR SMD_TOP REV 1.1	ASS021
PCB	LC-40/46IEA3 IR REV1.1	IR01
CHIP RESISTOR	4.7K OHM 1/10W 1608 5% D (472)	RI101;
CHIP RESISTOR	470 OHM 1/10W 1608 5% D (471)	RI102,RI103,RI106,RI107;
CHIP RESISTOR	560 OHM 1/10W 1608 5% D (561)	RI105;
CHIP RESISTOR	680 OHM 1/10W 1608 5% D (681)	RI104;
CHIP RESISTOR	82 OHM 1/10W 1608 5% D (820)	RI108
CHIP BEAD	CHIP BEAD 3216 501 (500Ω)	LI101;
TR	KTC3875S, KEC, SOT-23, switching	QI101,QI102,QI103;
WAFER	12505WR-08 (SMD) , YEONHO	PI102
WAFER	12505WR-02 (SMD) , YEONHO	PI101
NIMP AV PCB ASS'Y	LN-40/46IEA3 NIMP AV PCB REV 1.1 ASS'Y	ASS022
MANUAL INSERT	LN-40/46IEA3 NIMP AV MANUAL_INSERT REV 1.1	ASS023
JACK, MIC	MIC_JACK (NIMP AV 용)	PS103;
IC ECHO	M65856SP-A	ICS101;
JACK, S_VIDEO	PJ6046G (S_VIDEO), PARK	PS111;
JACK, USB	USB RECEPTACLE SERIES-A RIGHT ANGLE A4SA121R00	PS104;

Item	Specification	Location
WAFER	SMAW200-10P (DIP) , YEONHO	PS112;
JACK, RCA	PPJ128A-2 (A/V 3P WITH S/W RD-WH-YL), PARK	PS110;
WAFER	SMAW200-14P (DIP) , YEONHO	PS102;
AUTO INSERT_RADIAL	LN-40/46IEA3 NIMP AV SUTO_INSERT_RADIAL REV 1.1	ASS024
AL EL CAPACITORS	100uF STD 16V M FL TP5 (6.3X11 85℃)	CS140;
AL EL CAPACITORS	220uF STD 10V M FL TP5 (6.3X11 85℃)	CS109;
AL EL CAPACITORS	1uF STD 50V M FL TP5 (5X11 85℃)	CS114,CS141,CS142,CS143,CS145,CS146
AL EL CAPACITORS	2.2uF STD 50V M FL TP5 (5X11 85℃)	CS148,CS151;
AL EL CAPACITORS	4.7uF STD 50V M FL TP5 (5X11 85℃)	CS153,CS154;
AL EL CAPACITORS	47uF STD 50V M FL TP5 (6.3X11 85℃)	CS157;
AL BIPOLAR EL CAPACITORS	1uF STD 50V M FL BP (5X11 85℃)	CS144,CS147
AL BIPOLAR EL CAPACITORS	2.2uF STD 50V M FL BP (5X11 85℃)	CS149,CS150
SMD_TOP	LN-40/46IEA3 NIMP AV SMD_TOP REV 1.1	ASS025
PCB	LC-40/46IEA3 NIMP AV REV1.1 060322	IR01
CHIP RESISTOR	0 OHM 1/10W 1608 5% D (000)	RS122,RS117
CHIP RESISTOR	10K OHM 1/10W 1608 5% D (103)	RS133,RS134,RS135;
CHIP RESISTOR	15K OHM 1/10W 1608 5% D (153)	RS136,RS137;
CHIP RESISTOR	1K OHM 1/10W 1608 5% D (102)	RS115,RS120;
CHIP RESISTOR	220K OHM 1/10W 1608 5% D (224)	RS114,RS121;
CHIP RESISTOR	10K OHM 1/10W 1608 5% D (103)	CS152;
CHIP RESISTOR	4.7K OHM 1/10W 1608 5% D (472)	RS124,RS125,RS126;
CHIP RESISTOR	51K OHM 1/10W 1608 5% D (513)	RS138;
CHIP RESISTOR	56K OHM 1/10W 1608 5% D (563)	RS139;
CHIP RESISTOR	82 OHM 1/10W 1608 5% D (820)	RS111,RS113,RS116,RS118,RS112,RS119;
CHIP CAPACITORS	0.01uF 50V 10% 1608 R/TP (103)	CS121;
CHIP CAPACITORS	0.022uF 50V 10% 1608 R/TP (223)	CS130;

Item	Specification	Location
CHIP CAPACITORS	0.068uF 50V 10% 1608 R/TP (683)	CS131,CS132;
CHIP CAPACITORS	0.1uF 50V 20% 1608 R/TP (104)	CS133,CS134,CS135,CS136,CS137;
CHIP CAPACITORS	1000pF 50V 10% 1608 R/TP (102)	CS138,CS139;
CHIP CAPACITORS	330pF 50V 10% 1608 R/TP (331)	CS104;
CHIP CAPACITORS	4700pF 50V 10% 1608 R/TP (472)	CS155,CS156;
CHIP BEAD	CHIP BEAD 3216 501 (500Ω)	LS101;
TR	BSS83, PHILIPS, SOT-143B, n-ch switching tr	ICS102,ICS103,ICS104;
CHIP INDUCTOR	3.3uH Inductor 50mA 2012 20%	LS102;
WAFER	12507WR-20 (SMD) , YEONHO	PS120;
NIMP PCB ASS'Y	NIMP SUB PCB ASS'Y Rev1.2 (SMD TOP)	ASS026
SMD_BOTTOM	NIMP SUB PCB ASS'Y Rev1.2 (SMD BOTTOM)	ASS027
CHIP RESISTOR	0 OHM 1/10W 1608 5% D (000)	RU147
CHIP RESISTOR	33 OHM 1/10W 1608 5% D (330)	RU117,RU118,RU148
CHIP RESISTOR	10K OHM 1/10W 1608 5% D (103)	RU178,RU190,RU191,RU205,RU211
CHIP RESISTOR	4.7K OHM 1/10W 1608 5% D (472)	RU106,RU107
CHIP RESISTOR	47K OHM 1/10W 1608 5% D (473)	RU170,RU172,RU173,RU174,RU200,RU201,RU206,RU207,RU212,RU213
		RU217,RU218,RU220,RU221,RU222,RU223,RU224,RU225,RU226,RU227
		RU228,RU229,RU230,RU231,RU232,RU233,RU234,RU235,RU236,RU237
		RU238,RU239,RU240,RU241,RU242
CHIP CAPACITORS	3pF 50V 10% 1608 R/TP (030)	CU114,CU115
CHIP CAPACITORS	1000pF 50V 10% 1608 R/TP (102)	CU113
CHIP CAPACITORS	0.01uF 50V 10% 1608 R/TP (103)	CU100,CU101,CU103,CU104,CU105,CU106,CU107,CU108,CU109,CU110
		CU111,CU119,CU121,CU122,CU126,CU128,CU130,CU132,CU135,CU136
		CU137,CU146,CU147,CU153,CU156,CU157,CU158
CHIP CAPACITORS	0.1uF 50V 10% 1608 R/TP (104)	CU127,CU145,CU162,CU170,CU173,CU175,CU180,CU202,CU203,CU206
IC SDRAM	HY57V281620ETP-H, TSOP54 128M SDRAM HYNIX	ICU103
CHIP BEAD	CHIP BEAD 3216 501 (500Ω)	LU101,LU102,LU103,LU107,LU110,LU111,LU113
CHIP INDUCTOR	3.3uH Inductor 50mA 2012 20%	LU100
IC BUS SWITCH	SN74CBTLV16210DLR,SSOP48 TI,LOW VOLTAGE 20BIT BUS SW	ICU200,ICU201,ICU202
DIODE, SWITCHING	BAV99LT1G, ON SEMI,SOT-23 (Pb-Free) high speed switching (KDS226 대치)	DU100,DU101,DU102,DU103,DU200,DU201
DIODE, ZENER	UDZS 5.6B, ROHM, SOD-323, 5.6v zener	ZDU200,ZDU201,ZDU202,ZDU203,ZDU204,ZDU205,ZD206,ZDU207 ,ZDU208,ZDU209
		ZDU210,ZDU211,ZDU212,ZDU213,ZDU214,ZDU215,ZDU216

Item	Specification	Location
IC REG	LD1117S33TR SOT-223 3.3V 800mA, ST	ICU115
IC	AMC3526LDMF, DUAL USB POWER SW, SOIC8 (ADD MICROTECH CORP.)	ICU116
SMD_TOP	NIMP SUB PCB ASS'Y Rev1.2 (SMD TOP)	
PCB	NIMP SIDE PCB REV1.2 060424 K.K	
CHIP RESISTOR	0 OHM 1/10W 1608 5% D (000)	RU149,RU163,RU164
CHIP RESISTOR	0 OHM 1/8W 2012 5% D (000)	LU200
CHIP RESISTOR	10 OHM 1/10W 1608 5% D (100)	RU101
CHIP RESISTOR	27 OHM 1/10W 1608 5% D (270)	RU138,RU139
CHIP RESISTOR	33 OHM 1/10W 1608 5% D (330)	RU104
CHIP RESISTOR	47 OHM 1/10W 1608 5% D (470)	RU125,RU126
CHIP RESISTOR	100 OHM 1/10W 1608 5% D (101)	RU113,RU114,RU128,RU129,RU142,RU165,RU166
CHIP RESISTOR	200 OHM 1/10W 1608 5% D (201)	RU111
CHIP RESISTOR	1K OHM 1/10W 1608 5% D (102)	RU115,RU152,RU153
CHIP RESISTOR	1.2K OHM 1/10W 1608 5% D (122)	RU103
CHIP RESISTOR	1.6K OHM 1/10W 1608 5% D (162)	RU110
CHIP RESISTOR	2.2K OHM 1/10W 1608 5% D (222)	RU112
CHIP RESISTOR	3.3K OHM 1/10W 1608 5% D (332)	RU122,RU124,RU208,RU209,RU210
CHIP RESISTOR	4.7K OHM 1/10W 1608 5% D (472)	RU105,RU108,RU109,RU136
CHIP RESISTOR	10K OHM 1/10W 1608 5% D (103)	RU116,RU150,RU192,RU193,RU194
CHIP RESISTOR	22K OHM 1/10W 1608 5% D (223)	RU151
CHIP RESISTOR	47K OHM 1/10W 1608 5% D (473)	RU120,RU121,RU127,RU130,RU202,RU203,RU204,RU214,RU215,RU216
CHIP RESISTOR	1M OHM 1/10W 1608 5% D (105)	RU100,RU102
CHIP CAPACITORS	22pF 50V 10% 1608 R/TP (220)	CU117,CU118
CHIP CAPACITORS	47pF 50V 10% 1608 R/TP (470)	CU148,CU151
CHIP CAPACITORS	0.01uF 50V 10% 1608 R/TP (103)	CU112,CU125,CU133,CU134,CU161,CU169
CHIP CAPACITORS	0.1uF 50V 10% 1608 R/TP (104)	CU102,CU181
CHIP CAPACITORS	0.47uF 16V 20% 1608 R/TP (474)	CU124,CU138,CU150,CU152
AL SMD CAPACITORS	10uF MVG 16V VC M D56 TP (4X5.3 85℃)	CU139,CU144,CU149,CU179,CU204
AL SMD CAPACITORS	100uF MVG 16V VC M F60 TP (6.3X5.7 85℃)	CU171,CU172,CU176,CU177
CRYSTAL	SX-1 27.0000MHZ +/-30ppm 16 pF TA	XU101
CRYSTAL	SX-1 48.000MHZ +/-30ppm 18 pF TA	XU100
CHIP BEAD	CHIP BEAD 3216 501 (500Ω)	LU104,LU105,LU108,LU112
TR	KTC3875S, KET, SOT-23, switching	QU100

Item	Specification	Location
IC DSP PROCESSOR	TMS320DM320ZHA-K BGA306 TI	ICU100
IC FLASH MEMORY	M29W640FT70N6E TSOP48 STM	ICU101
IC SDRAM	HY57V281620ETP-H, TSOP54 128M SDRAM HYNIX	ICU102
IC AUDIO CODEC	TLV320AIC23BPW, AUDIO CODEC IC, TSSOP28 TI	ICU104
IC Voltage Detector	KIA7027AF 3P SOT-89 R/TP KEC	ICU106
IC PLL	PLL1705DBQ, PLL IC, SSOP20 TI	ICU107
IC REG	LD1086DT15 DPAK 1.5V 1.5A	ICU111
IC REG	AZ1085S-3.3E1, 3.3V 3A,TO-263-3L BCD	ICU112
IC REG	LD1117S33TR SOT-223 3.3V 800mA, ST	ICU113
MEMORY CARD SLOT	CFHD-B9-0000, CF_CARD_SLOT, TC&C	PU200
MEMORY CARD SLOT	4IN1-XO-1006, 4IN1 CARD SLOT, TC&C	PU201
WAFER	12507WR-20 (SMD) , YEONHO	PU204
WAFER	FW12523-30(S) 후성	PU202
WAFER	20022WR-08A, 2.0MM(SMD) 8P R/A, YEONHO	PU203
IC EEPROM	AT24C32 SOP8 ATMEL	ICU109

CABINET PHANTOM ASSY	46A1 117C/212 PR BASIC	
CABINET ASSY	46A1 117C PR BASIC SKD	
FRAME ASSY	46A1 212/213 BASIC	
INDICATOR	3201 PMMA CRYSTAL	
SCREW	TAP TITE(B),PAN HEAD,D3.0 L8.0 MSWR3/FZB	
CUSHION	ADHESIVE V0 400*15*0.5	
MARK BRAND	37 SR 78*10 VIEWPIA	
FRAME LABEL	NIMP 40.5*18 REMOVAL STICKER(GLAZED COATING)	
FRAME LABEL	NAVE,HDREADY,SRS,HDMI 103*15 REMOVAL STICKER(GLAZED COATING)	
KEY ASSY	46 7KEY	
KEY PCB ASS'Y	LC-40/46IEA3 KEY PCB REV 1.1 ASS'Y	
BUTTON	46A1 ABS I17C	
BUTTON DECO	46A1 ABS CR PLATING	

Item	Specification	Location
SCREW	TAP TITE(B),PAN HEAD,D3.0 L8.0 MSWR3/FZB	
IR AUDIO OUT ASS'Y	LC(N)-40/46IEA3 IR AUDIO OUT ASS'Y REV 1.1	ASS022
IR PCB ASS'Y	LC-40/46IEA3 IR PCB REV 1.1 ASS'Y	
CONNECTOR ASS'Y	8P 1.25mm 150mm H-H (40" 46" KEY IR CABLE)	
CONNECTOR ASS'Y	2P 1.25mm-2.00mm 450mm H-H (40" 46" IR AUDIO OUT CABLE)	
AUDIO OUT PCB ASS'Y	LC-40/46IEA3 AUDIO OUT PCB REV 1.0 ASS'Y	
SCREW	TAP TITE(B),PAN HEAD,D3.0 L8.0 MSWR3/FZB	
BRACKET	PANEL 46A1 SECC T1.0	
BRACKET	SIDE 46A1 SECC T1.0 NIMP	
SCREW	TAP TITE(B),PAN HEAD,D3.0 L8.0 MSWR3/FZB	
SCREW	TAP TITE(P),TRUSS HEAD,D4.0 L12.0 MSWR3/FZB	
NIMP LABEL	NIMP 150*150 REMOVAL ART 80	
LCD MODULE	LTA460WS-L03, SS	
SCREW	MACHINE M4,D4*L8, BIND HEAD, BK	
SCREW	MACHINE BINDING 5*8 WHITE	
TAPE	AL FOIL CONDUCTIVITY 60*45*0.06	
TAPE	V0 INSULATION 50*20*0.2	
TAPE	AL FOIL CONDUCTIVITY 50*20*0.06	
TAPE	P625 ELECTRICAL #1350-1 15MM	
METAL FRAME ASSY	46A1 SECC T1.6	
METAL	FRAME TOP 4201 SECC T1.6	
METAL	FRAME BOTTOM 46A1 SECC T1.6	
BRACKET	WALL L 4201 SECC T2.0	
BRACKET	WALL R 4201 SECC T2.0	
SCREW	D3.0 L6.0 MSWR/FZMCW1(FIJI)	
CUSHION	ADHESIVE V0 200*15*0.5	
SCREW	D3.0 L6.0 MSWR/FZMCW1(FIJI)	
SCREW	ASSEMBLE TAP TITE,D4.0 6.0MM NON NON PVS MSWR/FZB	
CHASSIS ASSY	46 NIMP INDTEK EU	

Item	Specification	Location
MAIN PCB ASS'Y	LN-46IEA3 MAIN PCB REV 1.1 ASS'Y	ASS01
AV PCB ASS'Y	LN-40/46IEA3 AV PCB REV 1.1 ASS'Y	ASS06
CONNECTOR ASS'Y	15P 2.0mm 280mm H-H UL1007 AWG24 (POWER) M-STAR 전모델	
CONNECTOR ASS'Y	13P 2.0mm 280mm H-H UL1007 AWG24 (POWER)	
CONNECTOR ASS'Y	11P 2.00mm 670mm H-H (40" 46" KEY CABLE)	
NOISER FILTER ASS'Y	LC-46IEA3 NOISE FILTER ASS'Y	NOS01;
POWER SWITCH	JRA-1102H (POWER SWITCH)	NOS02;
NOISER FILTER	IF-06A2W2C (동일기연)	NOS03;
BRACKET	A/V 46A1 SECC T1.0 HDMI,WITHOUT RS232C FOR NIMP	
NUT,HEXAGON	1 D12.5 NO RULE BSP,BSW(유럽향)	
WASHER,DRAWING	PLAIN WASHER 13.0MM 20.0MM 0.5T SPC NI-PLATING (유럽향)	
SCREW	TAP TITE(B),PAN HEAD,D3.0 L8.0 MSWR3/FZB	
SCREW	DRAWING,BIND 3 4 BK	
SCREW	DRAWING,FLAT D3.0 L8.0 BK	
NUT	SCREW(NET)	
CARTON BOX	42,AV ASSY IN BOX,660*280	
CARTON BOX	42,AV ASS'Y MULTY CARTON	
ANTI-STATIC BAG	750*350 ANTI-STATIC	
SHIELD	4201 SPET T0.5 GASKET SKD	
SCREW	D3.0 L6.0 MSWR/FZMCW1(FIJI)	
BACK COVER ASSY	46A1 PS CUSHION SKD	
CUSHION	ADHESIVE V0 400*15*0.5	
DECORATION	46A1 MAIN DVBT CI	
DECORATION	46A1 A/V HIEND BASIC(LN/LD)	
COVER	SUB JACK 46A1 ABS 139A NIMP	
DECORATION	46A1 SIDE NIMP	
BACK LABEL	46A1 SR90*90 INDTEK ASSEMBLED IN EU NIMP	
SCREW	TAP TITE(P),TRUSS HEAD,D4.0 L14.0 MSWR/FZB	
SPEAKER BOX ASSY	SPEAKER 46A1 PS 197/117C	
CABINET	SPEAKER 46A1 PS 2405/14	
BACK COVER	SPEAKER 46A1 PS	
SPEAKER	8 OHM 25W MAIN	

Item	Specification	Location
SPEAKER	8 OHM 25W TWEETER	
LAMP PCB ASS'Y	LC-40/46IEA3 LAMP PCB REV 1.2 ASS'Y	
INDICATOR	46A1 LENS PMMA CRYSTAL	
WINDOW	46A1 SPEAKER ABS VACUUM EVAPORATION	
PIPE	PAPER D40*L40*IN35	
CONNECTOR ASS'Y	3P 2.00mm 420mm H-T (40" 46" SPEAKER CABLE)	
CONNECTOR ASS'Y	4P 2.00mm 420mm H-T (40" 46" SPEAKER CABLE)	
CONNECTOR ASS'Y	9P 2.00mm 300mm H-H (40" 46" AUDIO OUT-LAMP CABLE)	
SCREW	TAP TITE(B),PAN HEAD,D3.0 L8.0 MSWR3/FZB	
SCREW	TAP TITE(P),TRUSS HEAD,D4.0 L14.0 MSWR/FZB	
SCREW	TAP TITE(P),TRUSS HEAD,D4.0 L20.0 MSWR/FZB	
COVER	SPEAKER JACK 46A1 ABS	
SCREW	D3.0 L10.0 MSWR/FZB	
STAND ASSY	46A1 117C SKD	
STAND COVER	46A1 PS 117C	
COVER	STAND DECO 40A1 ABS VACUUM EVAPORATION	
SUPPORTER	46A1 AL 7227S00047A	
BRACKET	STAND 46A1 SGHC T3.0	
BRACKET	HINGE ASSY 46A1	
SCREW	TAP TITE(P),TRUSS HEAD,D4.0 L14.0 MSWR/FZB	
RUBBER	D22*H5 55HR	
SCREW	TAP TITE(P),TRUSS HEAD,D4.0 L14.0 MSWR/FZB	
SCREW	MACHINE PAN HEAD 4*20 WHITE	
SCREW	TAP TITE(B),PAN HEAD,D3.0 L8.0 MSWR3/FZB	
SCREW	TAP TITE(P),TRUSS HEAD,D4.0 L14.0 MSWR/FZB	
SCREW	MACHINE PAN HEAD 6*16 WHITE	
CARTON BOX	46A1, D/W BROWN INDTEK ASSEMBLED IN EU	
BOX LABEL	VIEWPIA NIMP BOX LABEL	
CARTON BOX	46A1 D/W BROWN INDTEK BOTTOM	
BOX LABEL	70*70,WHITE,BASIC	
BAG	LAMI 37 HDPE 1400*1200*T0.5	
PACKING	46A1 TOP EPS	
PACKING	46A1 BOTTOM EPS	
PACKING	46A1 EPS 300*200*40	

Item	Specification	Location
ACCESSORY ASS'Y	VIEWPIA LN-40/46IEA3 ACCESSORY ASS'Y	
BAG	VINYL ACCESSORY LDPE 350*280*0.05	
CABLE	D-SUB CABLE 15P 1.5M	DSUB01;
REMOTE CONTROL	LN-46IEA3 VIEWPIA	REM01;
BATTERY	BATTERY AAA 1.5V	BAT01,BAT02;
POWER CORD	SP-023,IS-14 1.8M 220V/10A BK(Germany) , I-SHENG	POW02;
MANUAL	LN-40/46IEA3 Analogue + NIMP VIEWPIA 2nd	
MANUAL	NIMP SIMPLE FUNTION MANUAL 1st	
USB MEMORY STICK	USB MEMORY MOMORIVE PRO+ 256MB	
CONNECTOR ASS'Y	30P 250mm (40" 46"LVDS CABLE) SS	
CONNECTOR ASS'Y	14P 2.00mm 600mm H-H (40" 46"INVERTOR) SS	
CONNECTOR ASS'Y	14P 2.00mm 500mm H-H (40" 46"INVERTOR) SS	
CONNECTOR ASS'Y	8P 2.00mm 500mm H-H (40" 46" AUDIO OUT CABLE)	
POWER ASS'Y	LC-46IEA3 POWER ASS`Y	POW01;
NIMP AV PACKAGE ASS'Y	LN-46IEA3 NIMP AV PACKAGE ASS'Y	ASS023
NIMP AV PCB ASS'Y	LN-40/46IEA3 NIMP AV PCB REV 1.1 ASS'Y	ASS022
CONNECTOR ASS'Y	14P 2.00mm 290mm H-H (40" 46" NIMP MIC-AV CABLE)	
CONNECTOR ASS'Y	10P 2.00mm 340mm H-H (LC-40IJA2 AV ANALOG SIDE CABLE)	
NIMP PACKAGE ASS'Y	LN-40/46IEA3 NIMP PACKAGE ASS'Y	ASS024
NIMP PCB ASS'Y	NIMP SUB PCB ASS'Y Rev1.2	ASS26
CONNECTOR ASS'Y	30P-31P 1.25mm 580mm H-H (40" 46" MAINP-NIMP CABLE)	
CONNECTOR ASS'Y	8P 2.00mm 500mm H-H (40" 46" NIMP-AV CABLE)	
CONNECTOR ASS'Y	20P 1.25mm 65mm H-H (40" 46" NIMP-NIMP MIC CABLE)	
SHIELD	SIDE 4601 SPET T0.5	
BOX SKD	AV PCB BOARD,542*363*287	
CROSS PAD	AV PCB BOARD,360*135	
CROSS PAD	AV PCB BOARD,539*135	
PAPER PAD	MAIN PCB BOARD,539*360	
BUBBLE BAG	AV PCB BOARD,330*170	

Item	Specification	Location
PALLET	WOODEN,1180*1140*135	
TIE_CABLE	100MM	

■Differential Part List Of Each Product.

Location	40 inch	46 inch
P805	×	SMW200-15P (DIP) , YEONHO

PCB REV LIST

NO	PCB VER NO	Remarks
1	AV PCB REV 1.1-=> 1.2	PICTURE QUALITY
2	MAIN PCB REV 1.1=> 1.2	2 nd PICTURE QUALITY
3		
4		
5		
6		
7		
8		
9		
10		

■ Soft ware ver list

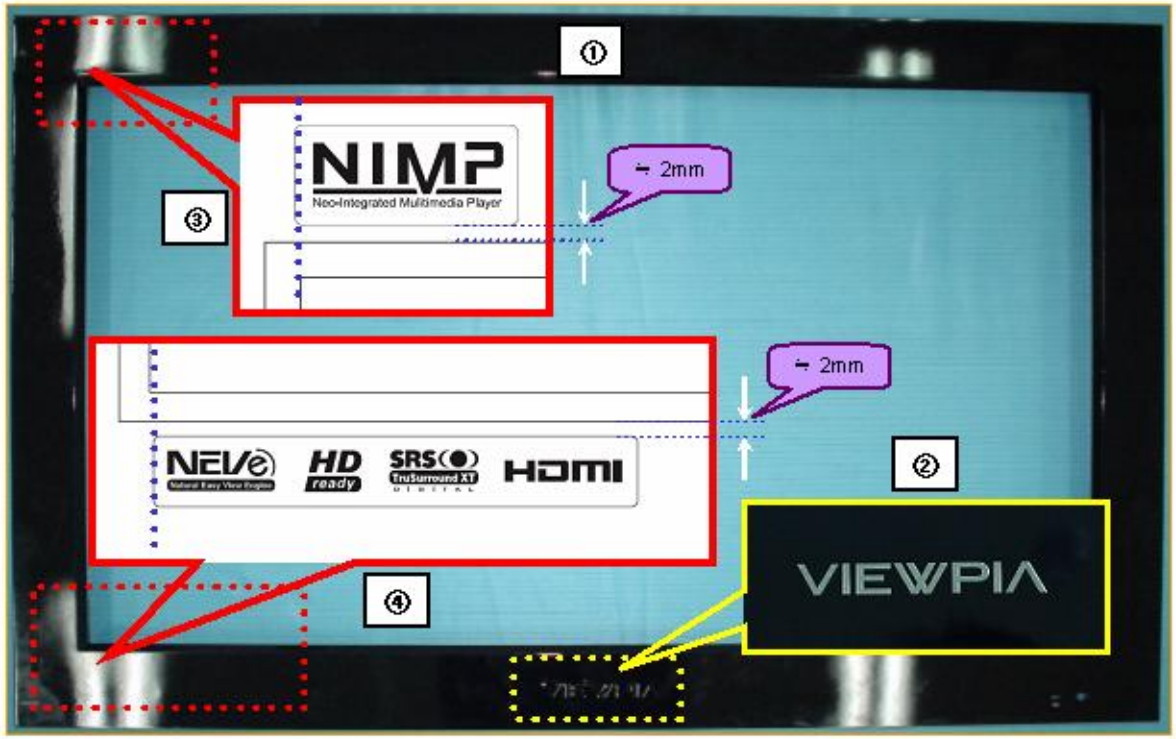
NO	Micom Rev	Remarks
1	Ver No: 1.00	MP Start
2	Ver No: 2.00	PICTURE QUALITY
3	Ver No: 2.02	2 nd PICTURE QUALITY
4		
5		
6		
7		
8		
9		
10		

Model : LN-40IEA3 Part # : SET Assembly

Attach the MARK BRAND How to Assemble

Work	Attach the MARK BRAND	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP .Logo Jig
.Non-conductor gloves .Frame Label Jig

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

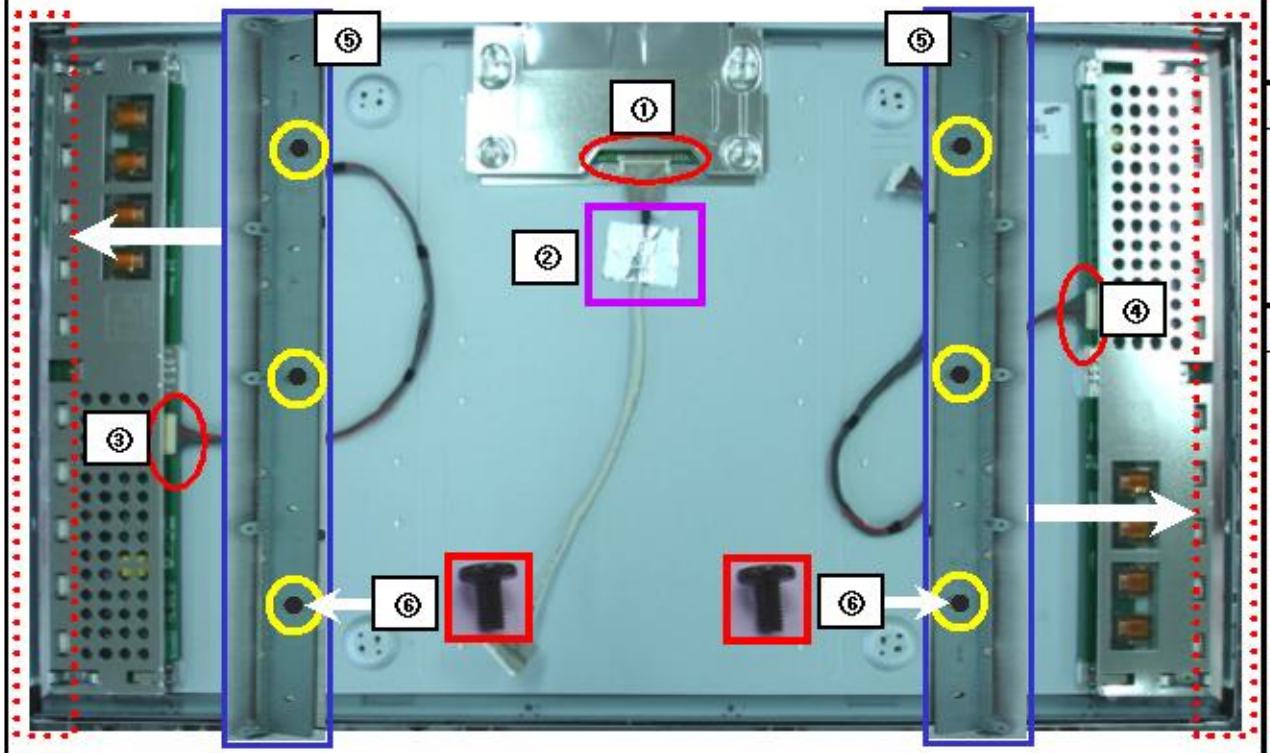
- Attach the MARK BRAND on the center of the CABINET ASSY by using the LOGO JIG.
- Attach the NIMP LABEL on the left top of the CABINET ASSY by using the FRAME LABEL JIG.
- Attach the FRAME LABEL on the left bottom of CABINET ASSY by using the FRAME LABEL JIG.

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		CABINET ASSY	I3091V40002A	1	40A1 117C/212 PR BASIC	
②		MARK BRAND	I3846V00027A	1	37 SR 78*10 VIEWPIA	
③		FRAME LABEL	I3840VA0043A	1	NIMP 40,5*18 REMOVAL STICKER(GLADE COATING)	
④		FRAME LABEL	I3840VA0043J	1	NAVE HDREADY SR HDMI 103*15 REMOVAL STICKER(GLAZED COATING)	
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

PANEL Assembly	How to Assemble			
Work	PANEL Assembly	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP .Electromotive driver
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.
-When assembling LVDS CABLE, do not make the WAFER damaged.

Working process

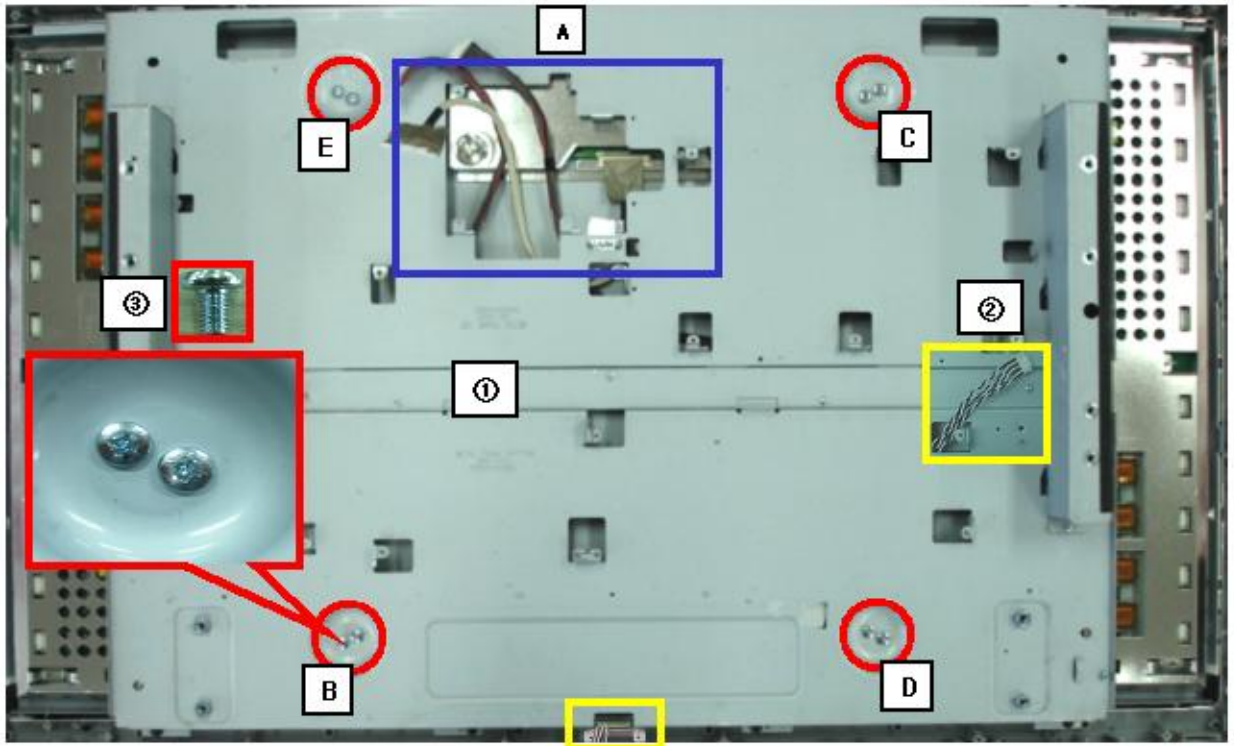
- Remove the protection film of PANEL.
- After connecting the LVDS CABLE, attach the TAPE.
- Connect the INVERTOR CONNECTOR in sequence.
- After putting the BRACKET like the picture, screw it.
- TORQUE 4 ~ 5 kgf.㎝

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		CONNECTOR ASS'Y	CO1250HH301	1	30P 250mm (40" 46" LVDS CABLE) SS	
②		TAPE	I7250VAL001A	1	AL FOIL CONDUCTIVITY 60*45*0.06	
③		CONNECTOR ASS'Y	CO1500HH141	1	14P 2.00mm 500mm H-H (40" 46" INVERTOR) SS	
④		CONNECTOR ASS'Y	CO1600HH141	1	14P 2.00mm 600mm H-H (40" 46" INVERTOR) SS	
⑤		BRACKET	I4810VMA001A	2	PANEL 46A1 SECC T1.0	
⑥		SCREW	1SZZVMB005J	6	MACHINE M4, D4*L8, BIND HEAD, BK	Electromotive driver
		LCD MODULE	SAM400W2L03	1	LTA400W2-L01, SS	

Model : LN-40IEA3 Part # : SET Assembly

FRAME Assembly	How to Assemble			
Work	FRAME Assembly	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP . Electromotive driver
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

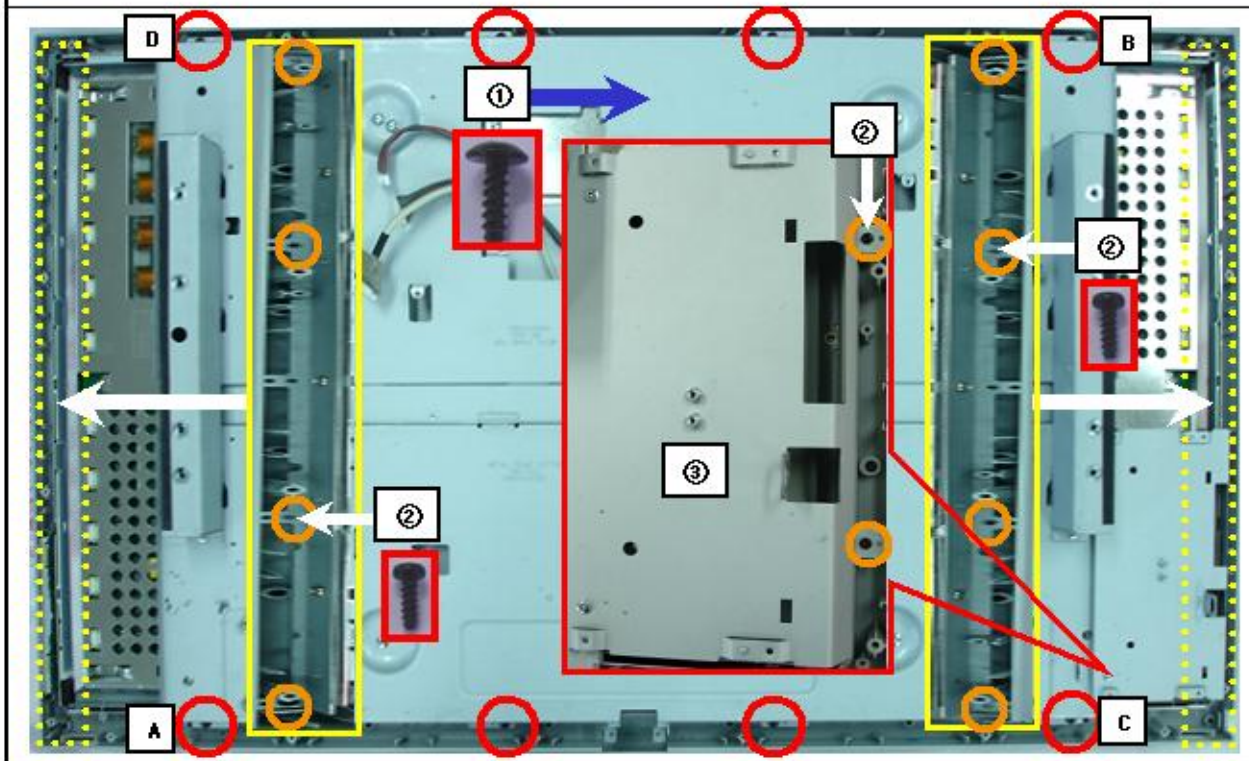
- After connecting the AUDIO CABLE to the METAL FRAME ASSY like the picture, put it to the PANEL and arrange the CONNECTOR like (A).
- Screw in sequence (B) ~ (E) by diagonally.
- TORQUE 6 ~ 7 kgf.㎝

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		METAL FRAME ASSY	I4951V40001A	1	40A1 SECC T1.6	
②		CONNECTOR ASS'Y	CO1500HH082	1	8P 2.00mm 500mm H-H (40" 46" AUDIO OUT CABLE)	
③		SCREW	I1PPF0502020	8	MACHINE PAN HEAD 5*6 WHITE	Electromotive driver
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

PANEL Assembly	How to Assemble			
Work	PANEL Assembly	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP . Electromotive driver
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

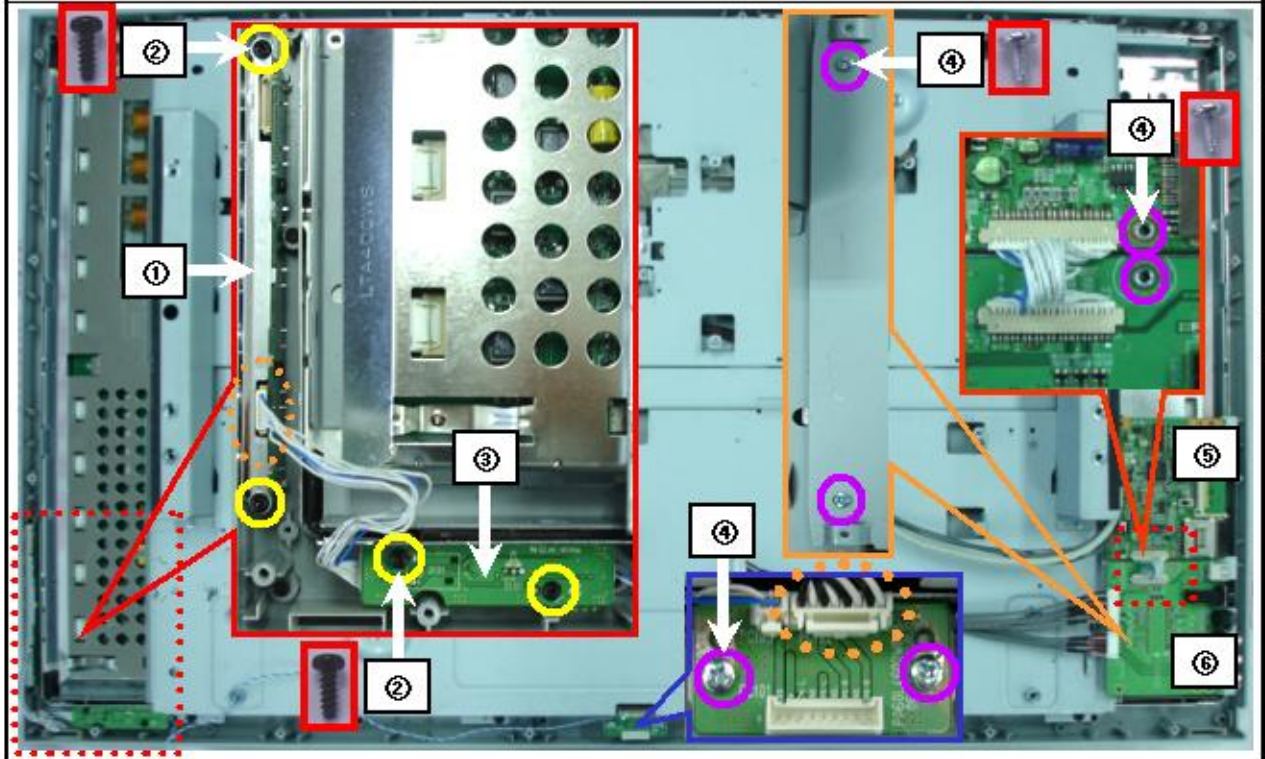
- After putting the PANEL to the CABINET ASSY, screw it in sequence (A~D) and the others.
- **TORQUE 5 ~ 6 kgf.㎝**
- After assembling the BRACKET with SCREW(3), fix it the CABINET.
- After putting the SIDE BRACKET, screw it.
- **TORQUE 3 ~ 4 kgf · ㎝**

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		SCREW	1PTF0402816	8	TAP TITE(P), TRUSS HEAD, D4.0 L12.0 MSWR3/FZB	Electromotive driver
②		SCREW	1BPF0302416	10	TAP TITE(B), PAN HEAD, D3.0 L8.0 MSWR3/FZB	Electromotive driver
③		BRACKET	I4810VKD001B	1	SIDE 40A1 SECC T1.0 NIMP	
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

KEY ASS'Y Assembly	How to Assemble			
Work	KEY ASS'Y Assembly	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP .Electromotive driver
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- After putting the KEY ASSY & IR AUDIO OUT ASS'Y with connecting the CONNECTOR, screw it.
- **TORQUE 3 ~ 4 kgf.㎝**
- After screwing the SIDE BRACKET like picture, put the NIMP AV PACKAGE & NIMP PACKAGE ASS'Y with connecting the CONNECTOR and screw it.
- **TORQUE 7 ~ 8 kgf · ㎝**

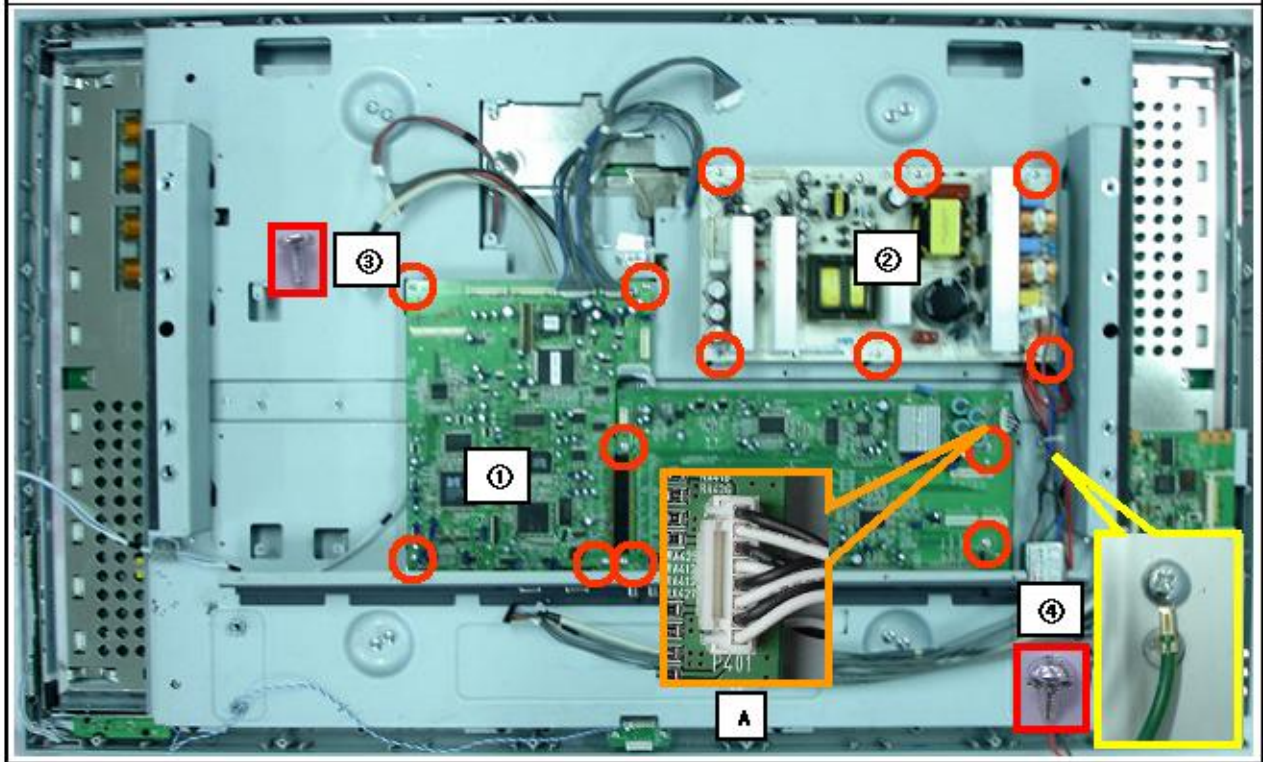
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		KEY ASSY	I3141V46K01A	1	46 7KEY	
②		SCREW	1BPF0302416	4	TAP TITE(B), PAN HEAD, D3.0 L8.0 MSWR3/FZB	Electromotive driver
③		IR AUDIO OUT ASS'Y	A4T6L46IA01	1	LC(N)-40/46IEA3 IR AUDIO OUT ASS'Y REV 1.1	
④		SCREW	1SZZTPP001C	6	D3.0 L6.0 MSWR/FZMCW1 (FIJI)	Electromotive driver
⑤		NIMP PACKAGE ASS'Y	A6T5U00ZN01	1	LN-40/46IEA3 NIMP PACKAGE ASS'Y	
⑥		NIMP AV PACKAGE ASS'Y	A6T5I46NN11	1	LN-40IEA3 NIMP AV PACKAGE ASS'Y	

Model : LN-40IEA3 Part # : SET Assembly

CHASSIS ASSY Assembly How to Assemble

Work	CHASSIS ASSY Assembly	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP . Electromotive driver
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- After putting the CHASSIS ASSY, connect the AUDIO OUT CABLE like (A).
- After putting the POWER ASS'Y, screw the MAIN, POWER, AV PCB ASS'Y from left bottom by diagonally.
- Screw the NOISE FILTER's EARTH WIRE.
- **TORQUE 6 ~ 7 kgf · cm**

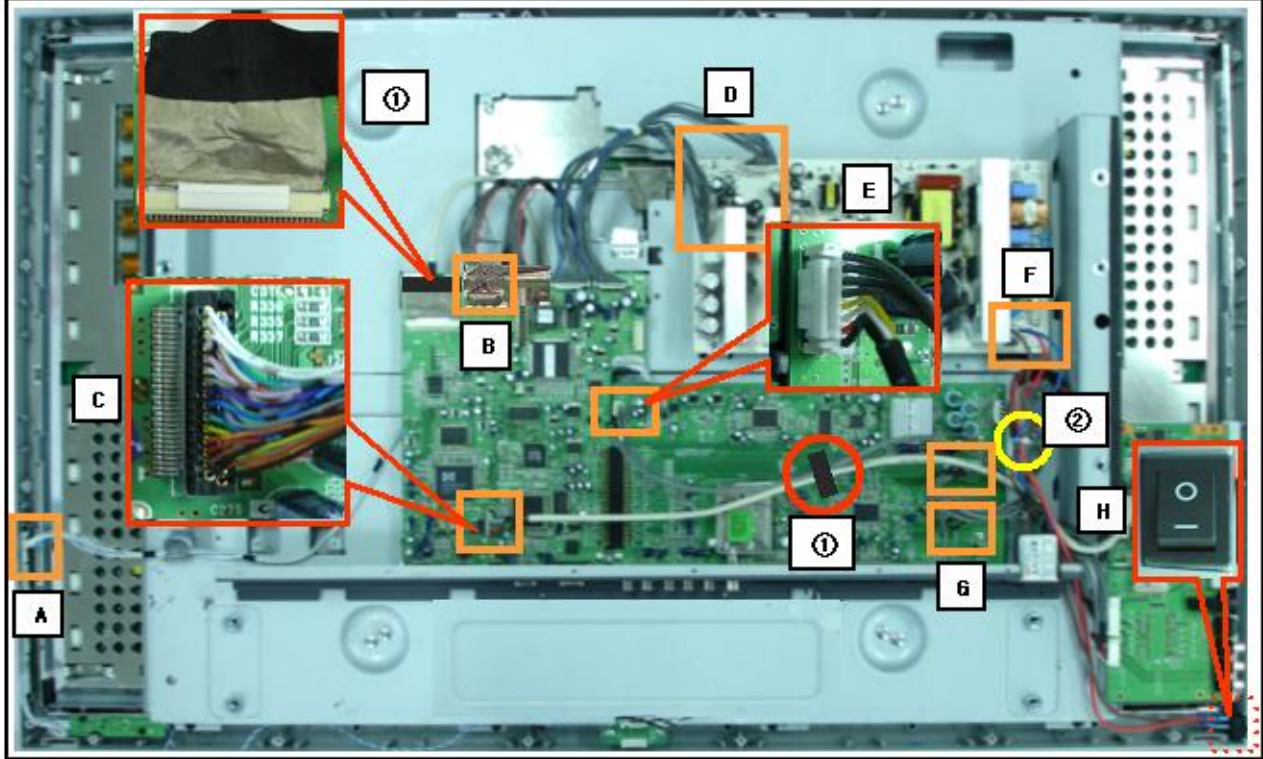
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		CHASSIS ASSY	I3141V40003B	1	40 NIMP INDTEK EU	
②		POWER ASS'Y	A1T6L40PN11	1	LC(D)-40~42I**2 POWER ASS'Y	
③		SCREW	1SZZTPP001C	14	D3,0 L6,0 MSWR/FZMCW1 (FIJI)	Electromotive driver
④		SCREW	339-006B	1	ASSEMBLE TAP TITE, D4,0 8,0MM NON NON PVS MSWR/FZB	Electromotive driver
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Connect the CONNECTOR How to Assemble

Work	Connect the CONNECTOR	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP .Nipper
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- After connecting the LVDS CABLE, attach the TAPE.
- Connect the KEY(A), INVERTOR(B), MAIN NIMP(C), POWER(D), NIMP AV CABLE(E), NOISE FILTER(F), & SIDE(G) CONNECTOR in sequence.
- Assemble the NOISE FILTER S/W with inserting it like picture (H)
- Fix the NOISE FILTER CONNECTOR with tying it with TIE CABLE.
- Fix the NIMP CABLE with attaching the TAPE on the AV PCB.

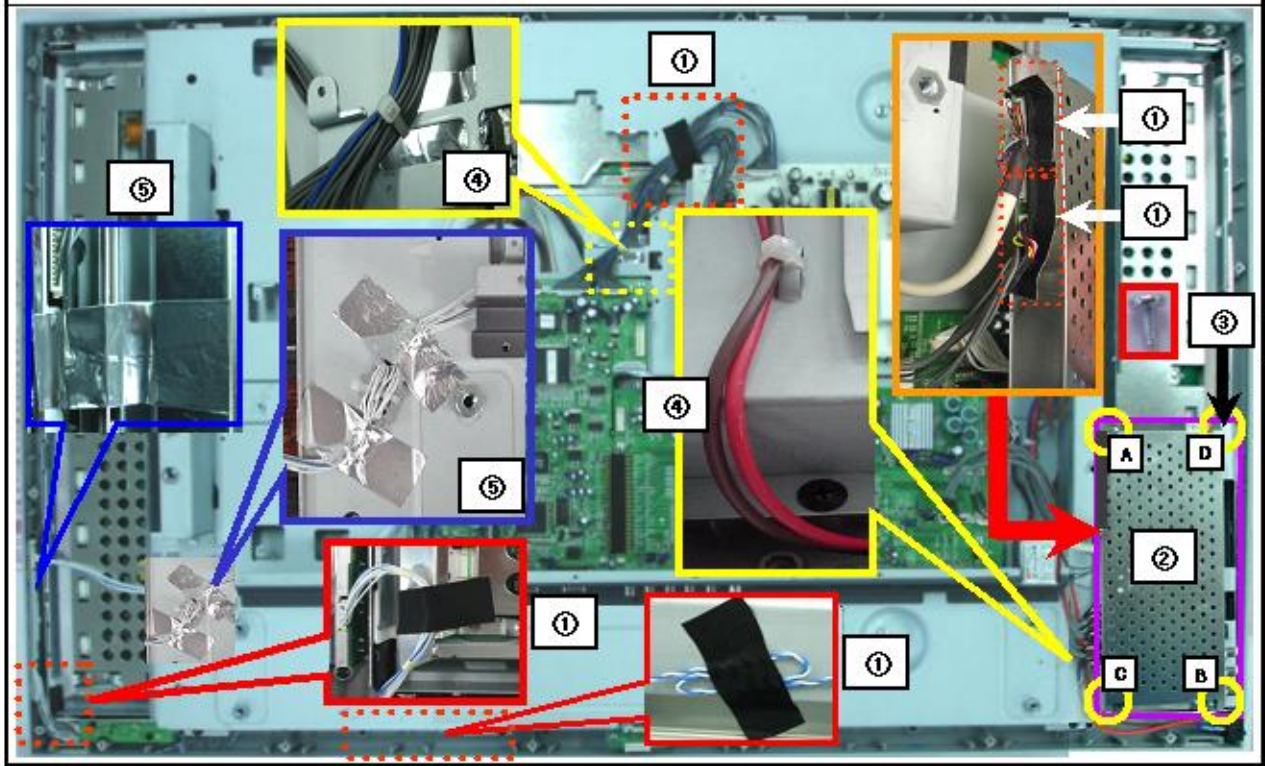
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		TAPE	I7250VAT001A	2	VO INSULATION 50*20*0.2	
②		TIE_CABLE	CABT100B001	1	100mm	Nipper
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Arrange the CONNECTOR How to Assemble

Work	Arrange the CONNECTOR	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP .Nipper
.Non-conductor gloves .Electromotive driver

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- After putting the SHIELD with attaching the TAPE(1) to 2points like picture, screw A ~ D in sequence.
- Fix the POWER & NOISE FILTER CONNECTOR with the FRAME by tying with TIE CABLE.
- Attach the TAPE(4) to the KEY CONNECTOR like picture and on the KEY ASSY with being close to the CONNECTOR.
- Fix the CONNECTOR with attaching the TAPE(1).
- TORQUE 7 ~ 8 kgf.㎝

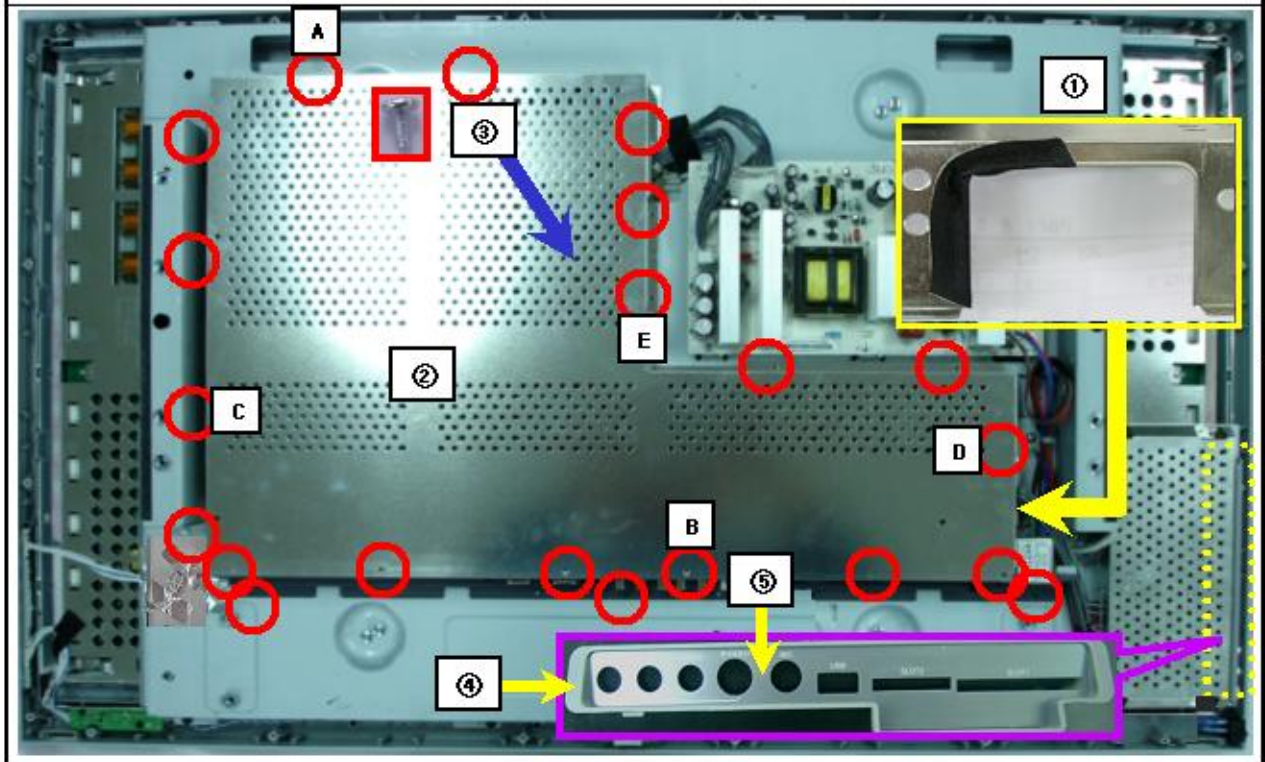
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		TAPE	17250VAT001A	5	VO INSULATION 50*20*0,2	
②		SHIELD	14814V46001A	1	SIDE 4601 SPET T0,5	
③		SCREW	1SZZTPP001C	4	D3,0 L6,0 MSWR/FZMCW1 (FIJI)	Electromotive driver
④		Tie_Cable	CABT100B001	2	100mm	Nipper
⑤		TAPE	17250VAL001C	3	AL FOIL CONDUCTIVITY 50*20*0,06	
⑥						

Model : LN-40IEA3 Part # : SET Assembly

SHIELD COVER Assembly How to Assemble

Work	SHIELD COVER Assembly	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP . Electromotive driver
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.
- Do not make the CONNECTOR damaged.

Working process

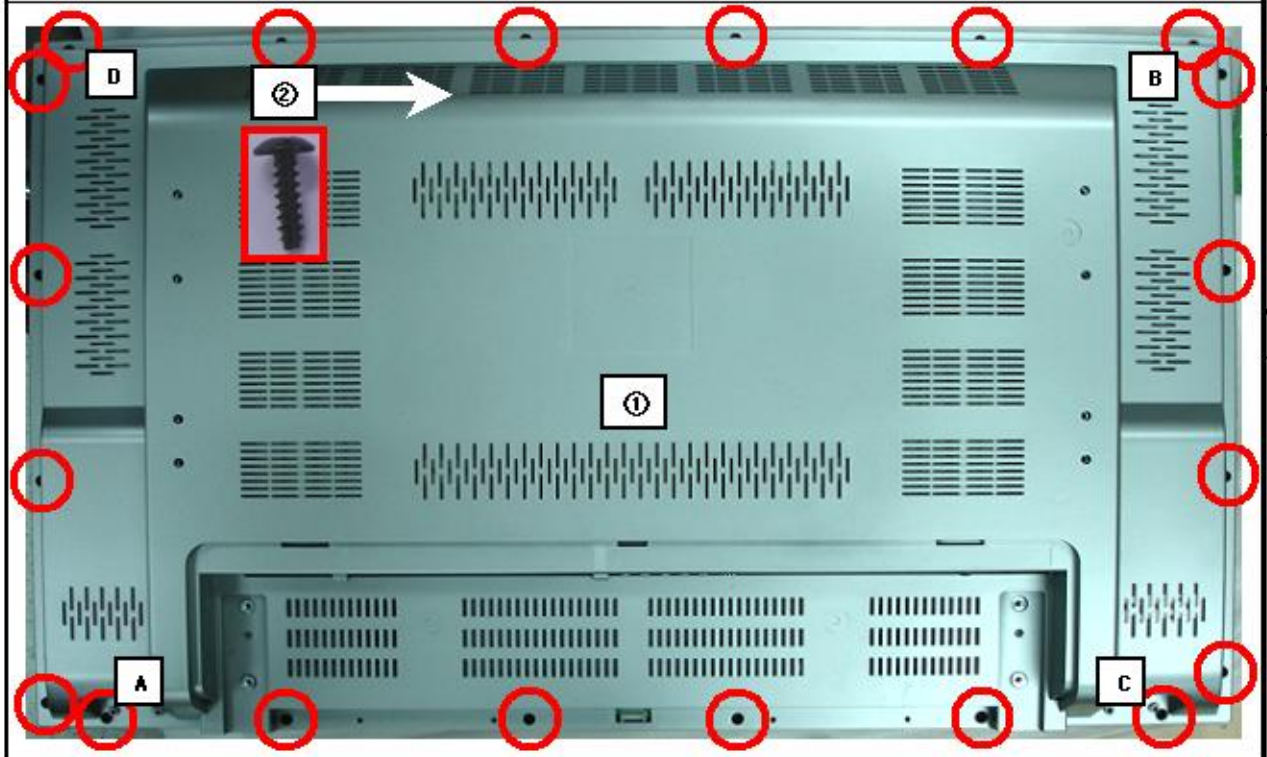
- Attach the TAPE to the side of SHIELD like picture.
- After putting the SHIELD, screw A~E in sequence and the others with clockwise.
- After attaching the DECORATION with matching the groove of COVER, put the COVER to the JACK of NIMP PCB.
- TORQUE 7 ~ 8 kgf · ㎝

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		TAPE	I7250VAT001A	1	VO INSULATION 50*20*0.2	
②		SHIELD	I4814V42001A	1	4201 SPET T0.5	
③		SCREW	1SZZTPP001C	21	D3.0 L6.0 MSWR/FZMCW1 (FIJI)	Electromotive driver
④		COVER	I3550VMC001B	1	SUB JACK 46A1 ABS NIMP	
⑤		DECORATION	I3508V46003M	1	46A1 SIDE NIMP	
⑥						

Model : LN-40IEA3 Part # : SET Assembly

BACK COVER Assembly How to Assemble				
Work	BACK COVER Assembly	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP . Electromotive driver
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- After covering the BACK COVER ASSY, screw it in sequence (A~D) and the others with clockwise.
- TORQUE 6 ~ 7 kgf.cm

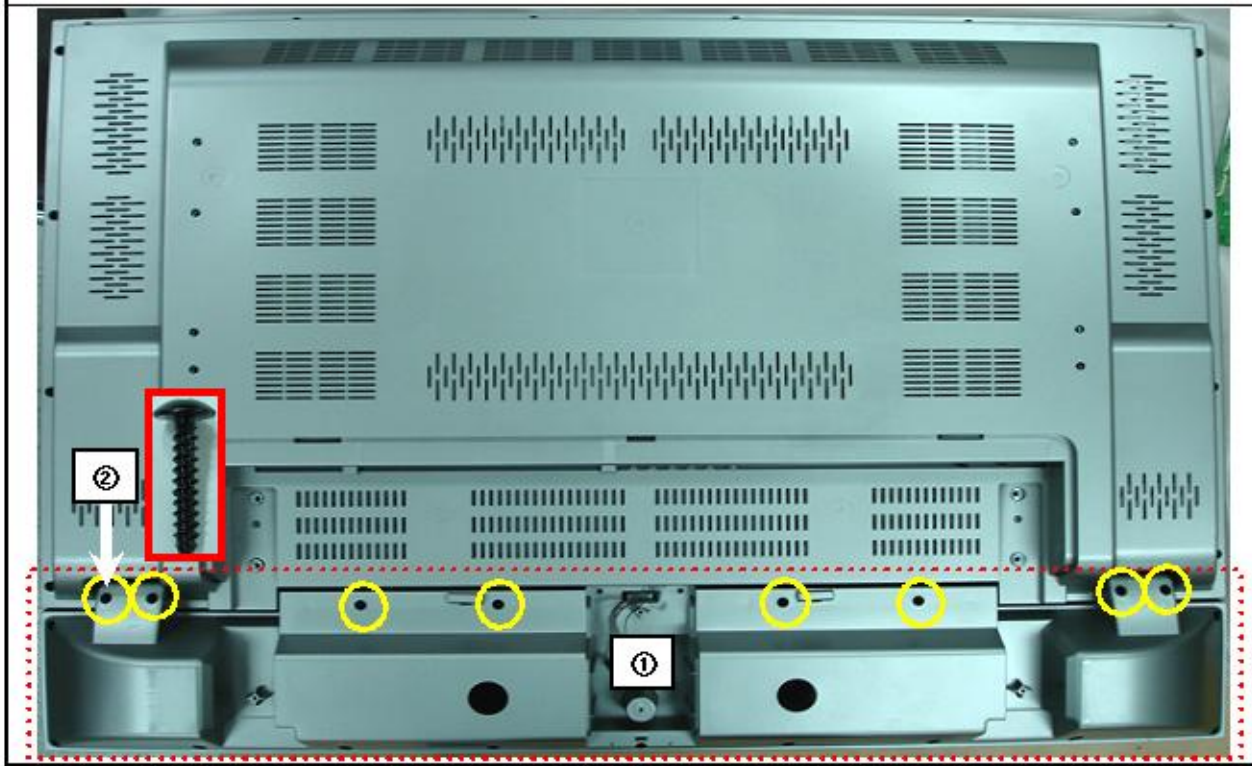
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		BACK COVER ASSY	I3809V40001A	1	40A1 PS BASIC	
②		SCREW	1PTF0403016	20	TAP TITE(P), TRUSS HEAD, D4.0 L14.0 MSWR3/FZB	Electromotive driver
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

SPEAKER ASSY Assembly How to Assemble

Work	SPEAKER ASSY Assembly	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP . Electromotive driver
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

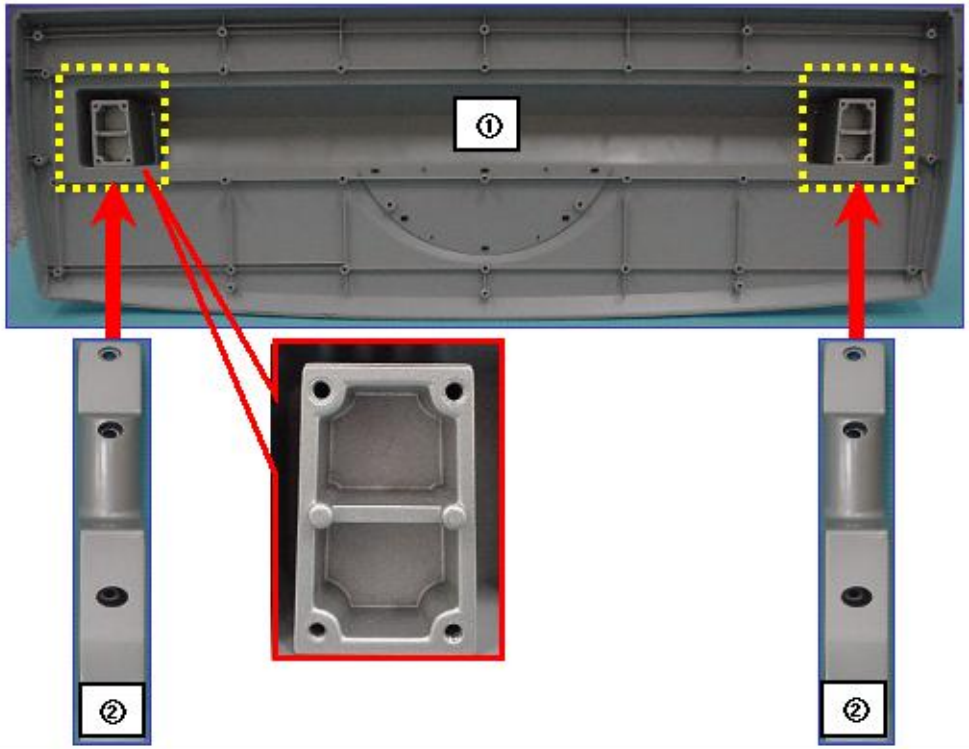
- After putting the SPEAKER BOX ASSY, screw it in sequence.
- TORQUE 6 ~ 7 kgf.㎝

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		SPEAKER BOX ASSY	I3561V40001A	1	SPEAKER 40A1 PS 197/117C	
②		SCREW	1PTF0403316	8	TAP TITE(P), TRUSS HEAD, D4,0 L20,0 MSWR3/FZB	Electromotive driver
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Assemble the STAND I How to Assemble				
Work	Assemble the STAND I	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006.05.19

Drawing of working process



Equipment & Tools

.WRIST STRAP
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- After turning upside the STAND COVER, insert the SUPPORTER like the picture.

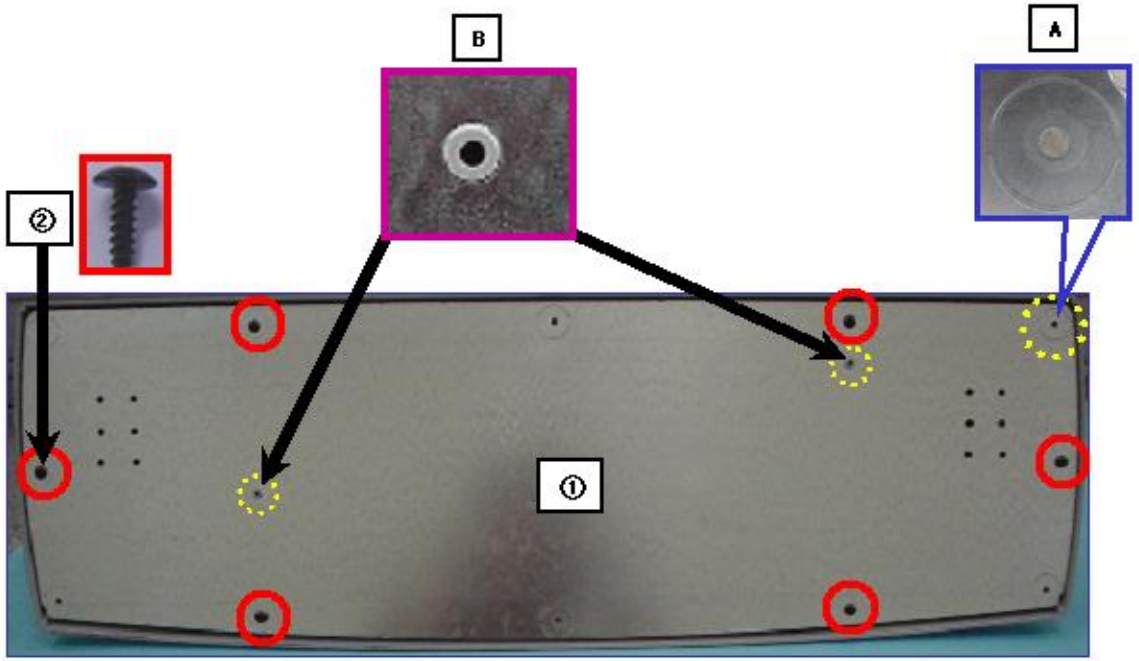
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		STAND COVER	I3550V40001A	1	40A1 PS 117C	
②		SUPPORTER	I4980V40001A	2	40A1 AL 7227S00047A	
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Assemble the STAND II How to Assemble

Work	Assemble the STAND II	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP . Electromotive driver
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- Put the BRACKET to make (A) in the picture to be placed outside.
- When putting it, put it with matching it to the (B) BOSS in the picture.
- Screw the red part in the picture in sequence.
- **TORQUE 4 ~ 5 kgf · cm**

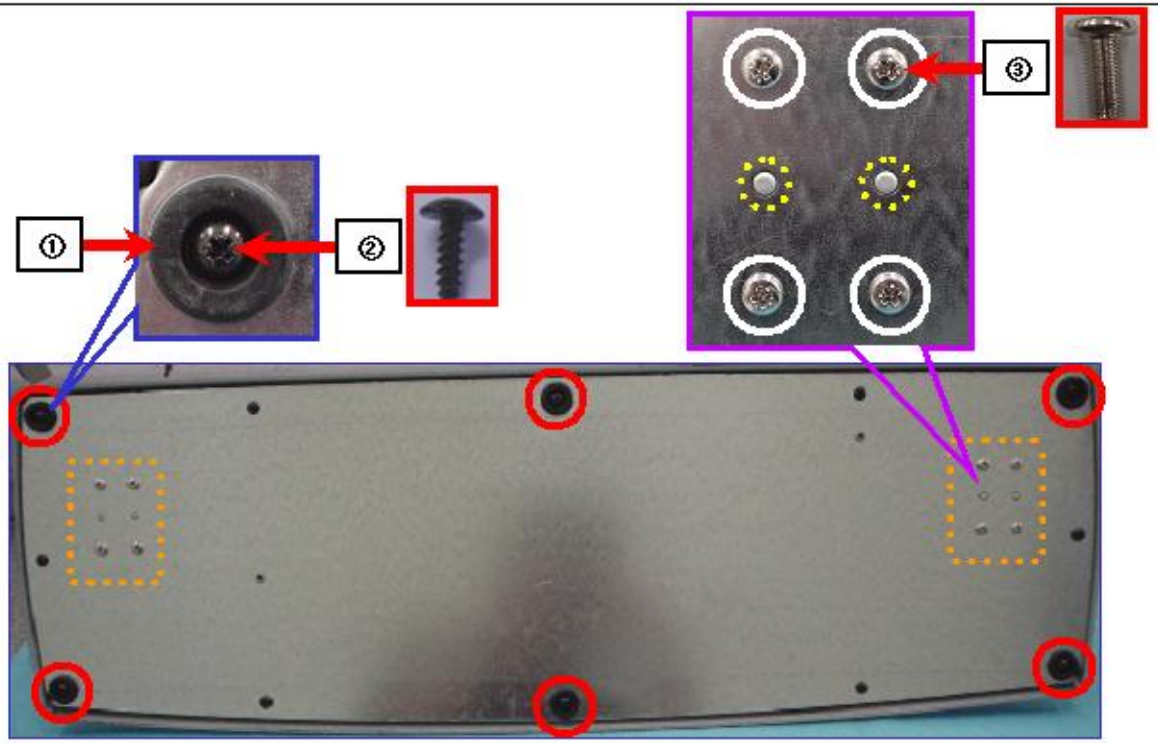
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		BRACKET	I4810VKK001A	1	STAND 40A1 SGHC T3,0	
②		SCREW	1PTF0402816	6	TAP TITE(P), TRUSS HEAD, D4,0 L12,0 MSWR3/FZB	Electromotive driver
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Assemble the STAND III How to Assemble

Work	Assemble the STAND III	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006.05.19

Drawing of working process



Equipment & Tools

.WRIST STRAP . Electromotive driver
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- When assembling the red part, screw each part with putting the RUBBER separately.
- After matching the SUPPORTER to the yellow dotted part of the BRACKET'S HOLE, screw it.
- TORQUE 5 ~ 6 kgf · cm

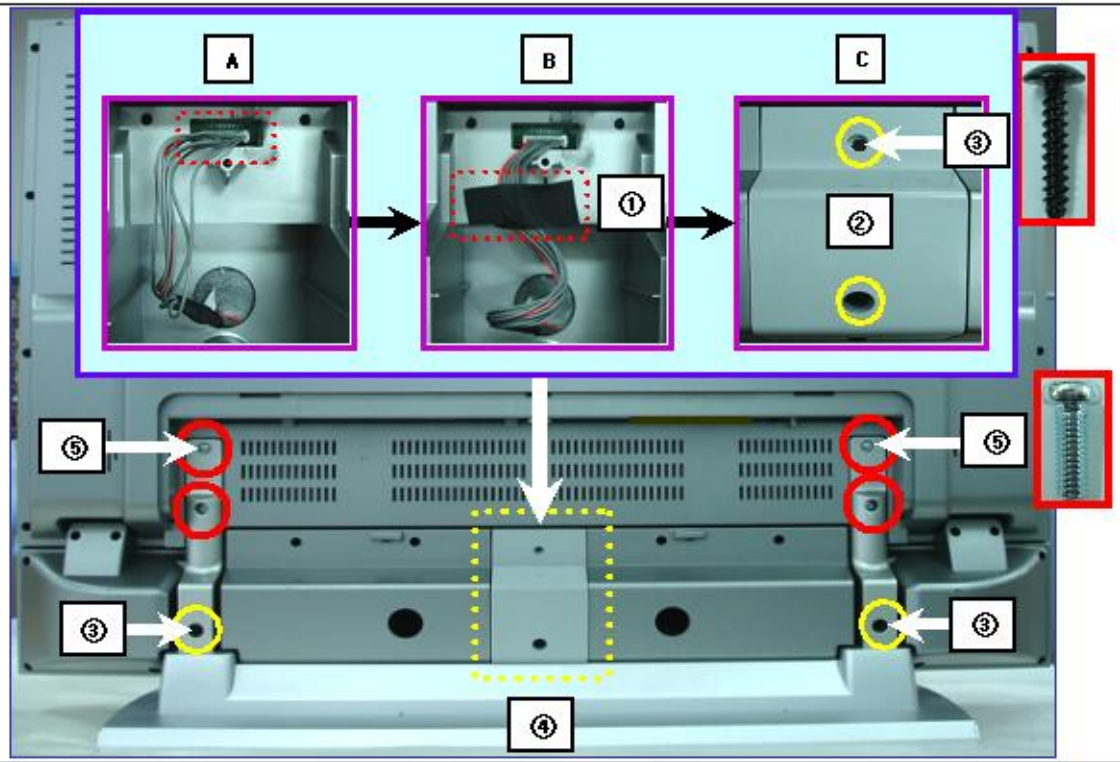
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		RUBBER	I5040V46001A	6	D22*H5 55HR	
②		SCREW	1PTF0402816	6	TAP TITE(P), TRUSS HEAD, D4.0 L12.0 MSWR3/FZB	Electromotive driver
③		SCREW	I1PPF0402820	8	MACHINE PAN HEAD 4*12 WHITE	Electromotive driver
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

STAND ASSY Assembly How to Assemble

Work	STAND ASSY Assembly	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.WRIST STRAP . Electromotive driver
.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- After connecting the CONNECTOR of SPEAKER like (A ~ C), attach the TAPE and screw it with putting the COVER.
- After putting the STAND ASSY, screw it in sequence.
- TORQUE 6 ~ 7 kgf.cm

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		TAPE	I7250VAT001A	1	VO INSULATION 50*20*0.2	
②		COVER	I3550VKC001A	1	SPEAKER JACK 40A1 ABS	
③		SCREW	1PTF0403316	4	TAP TITE(P), TRUSS HEAD, D4.0 L20.0 MSWR3/FZB	Electromotive driver
④		STAND ASSY	I3551V40001A	1	40A1 117C	
⑤		SCREW	I1PPF0603120	4	MACHINE PAN HEAD 6*16 WHITE	Electromotive driver
⑥						

Model : LN-40IEA3 Part # : SET Assembly

AGING How to Assemble				
Work	AGING	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006.05.19

Drawing of working process

Equipment & Tools

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- Turn on the set for AGING for min 1 hour.

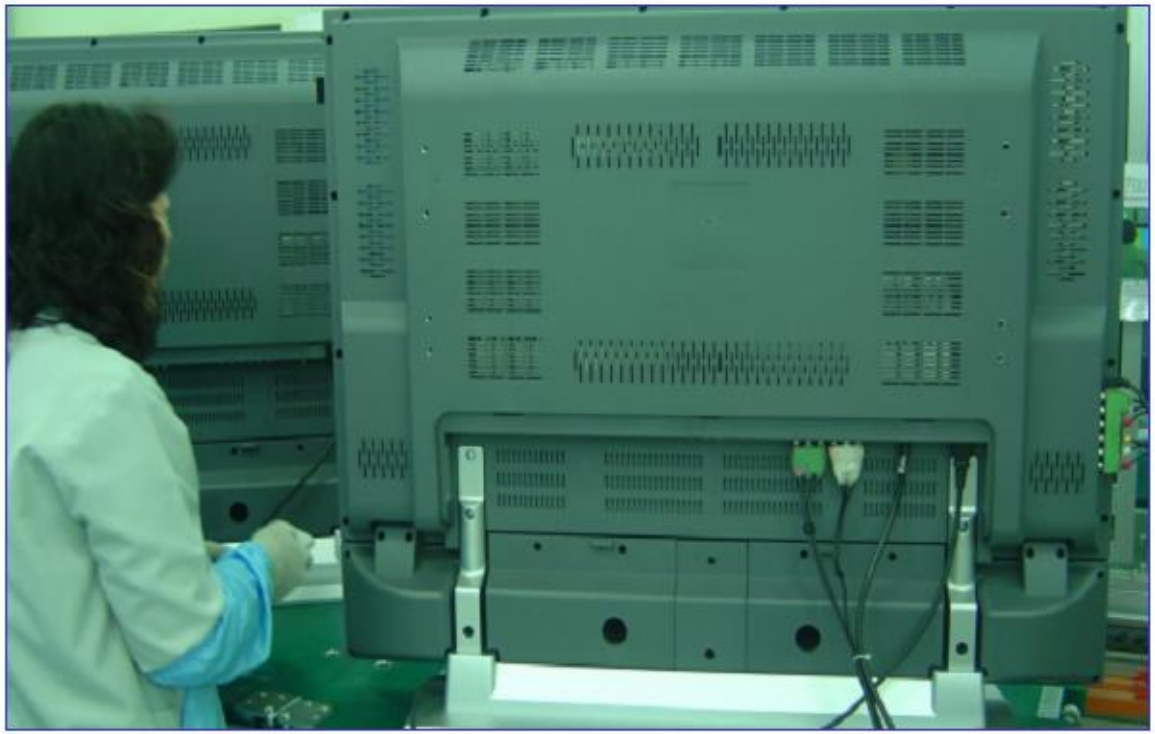
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①						
②						
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Efficiency test 1 How to Assemble

Work	Efficiency test 1	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006.05.19

Drawing of working process



Equipment & Tools

.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- Test the operation of RF signal receive & Button (& coaxial audio output)
- Test AV 1, 2, 3 (& coaxial audio output)
- Test PIP
- Test AV4, S-VIDEO (& coaxial audio output)
  - connecting both : check AV4(SOUND), S-VIDEO(PICTURE)
  - removing S-VIDEO : check AV4(SOUND, PICTURE)
- Test impact

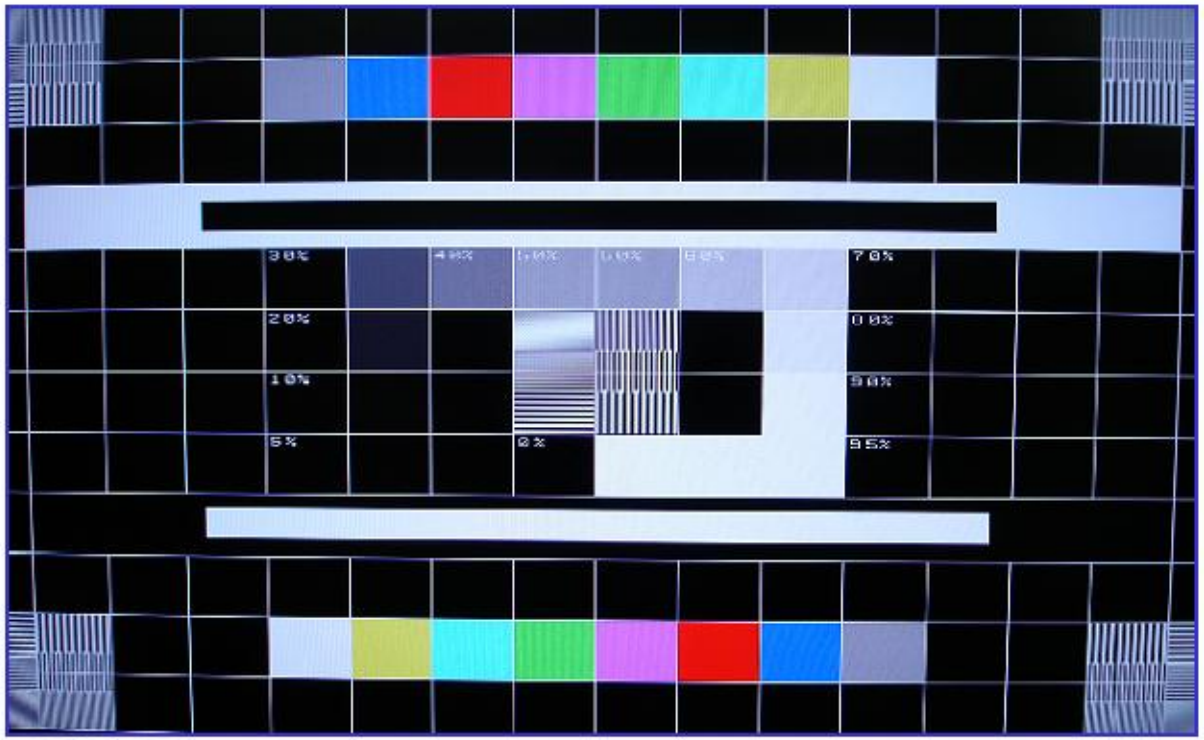
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①						
②						
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Efficiency test 2 How to Assemble

Work	Efficiency test 2	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- Perform the W/B control in the COMPONENT Mode (R,G,B COLOR remove) - (720P 60Hz) & screen(1080i, 480i)
- Perform the W/B control in the PC mode (1024x768 60Hz) and PC AUTO in the MENU
- Test coaxial audio output in the COMPONENT & PC Mode

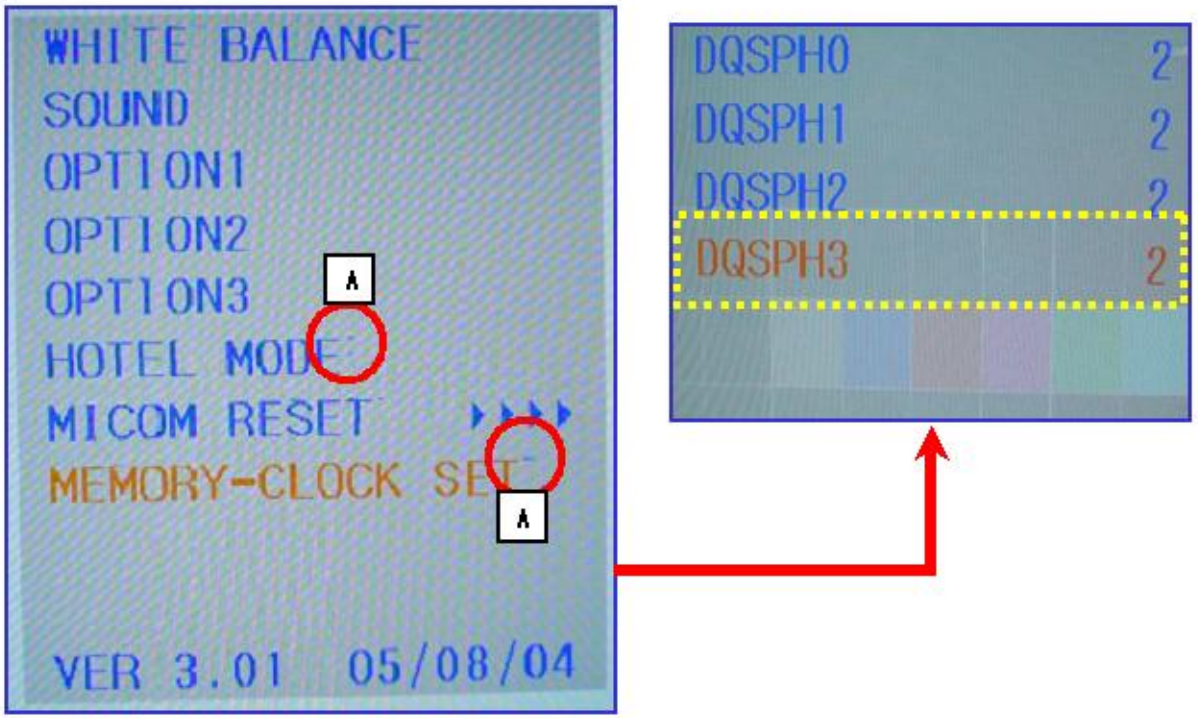
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①						
②						
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Efficiency test 3 How to Assemble

Work	Efficiency test 3	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006.05.19

Drawing of working process



Equipment & Tools

.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- After checking W/B, check NOISE.
- If there are NOISE(A), click MEMORY-CLOCK SET and remove the NOISE by adjusting "DQSPH3" value.

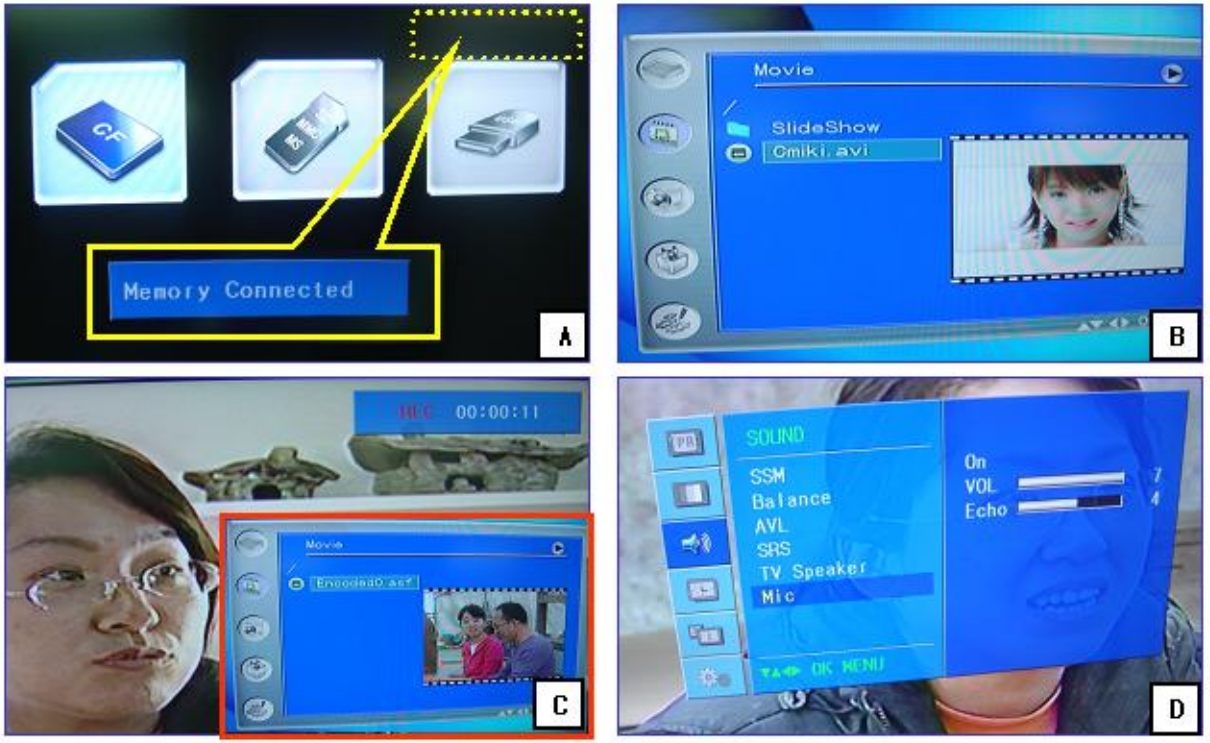
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①						
②						
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Efficiency test 4 How to Assemble

Work	Efficiency test 4	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- SD, CF CARD : image, MP3, movie input status
- USB : being input image, MP3
- (A) After inserting SD, CF CARD, check the message when inserting USB
- (B) After playing movie in SD or CF, check picture, SOUND
- (C) After recording by pressing the RECORD Key, check play, picture & SOUND in CF
- (D) After setting MENU-SOUND-MIC ON, connect the MIC and test MIC

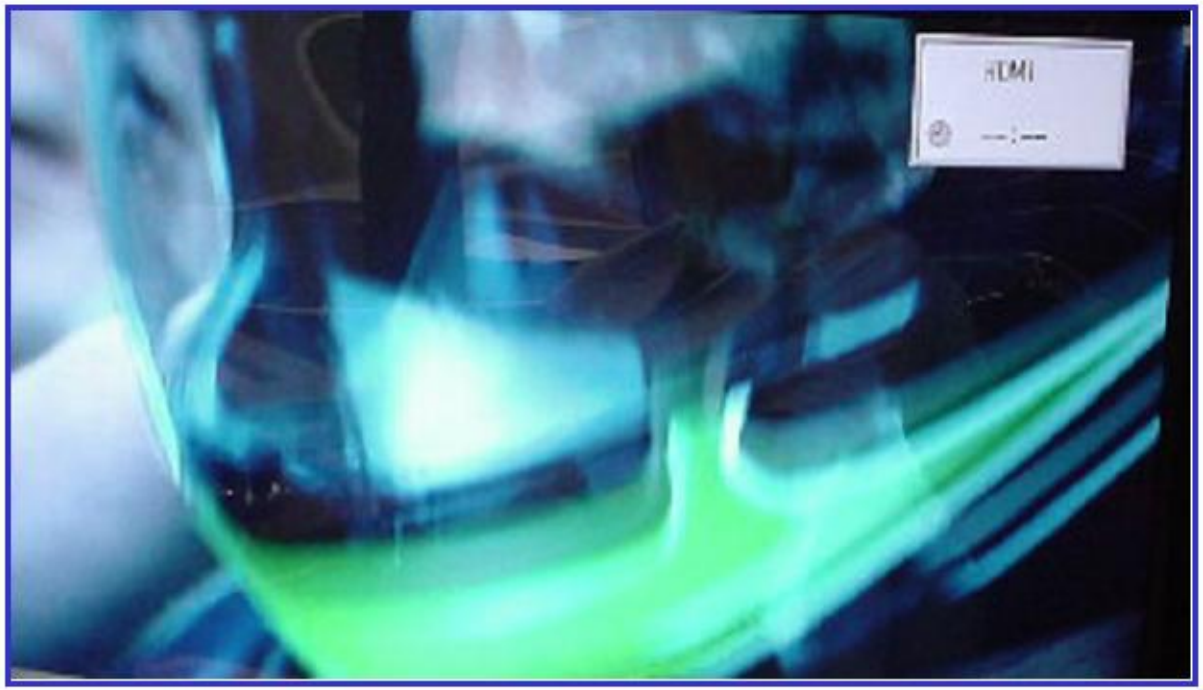
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①						
②						
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Efficiency test 5 How to Assemble

Work	Efficiency test 5	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006.05.19

Drawing of working process



Equipment & Tools

.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- Check the HDCP picture & SOUND
- After checking screen and coaxial audio output when HDMI 1,2 signal is received, fit the protection cap to the coaxial audio.
- Perform the inner pressure test (1.8Kv 10mA 1sec)

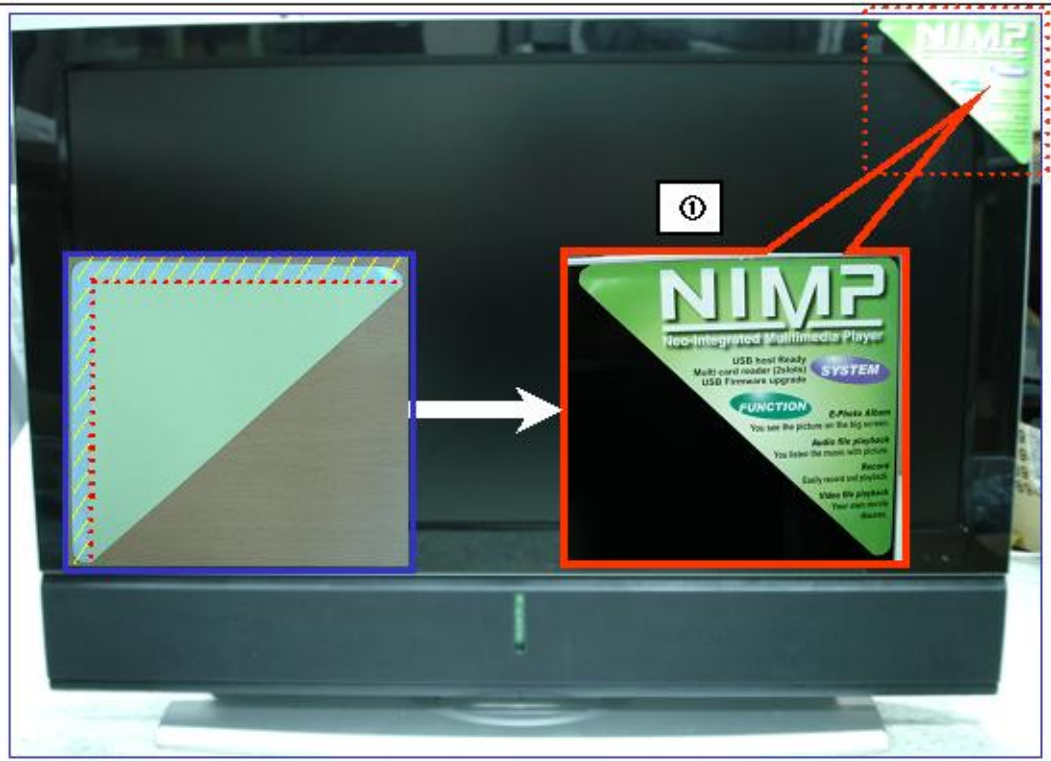
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①						
②						
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Attach the NIMP LABEL How to Assemble

Work	Attach the NIMP LABEL	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.
- **Attach the BACK LABEL properly.**

Working process

• After removing the marked part of backside of LABEL like the picture, attach NIMP LABEL to the right top of the SET front.

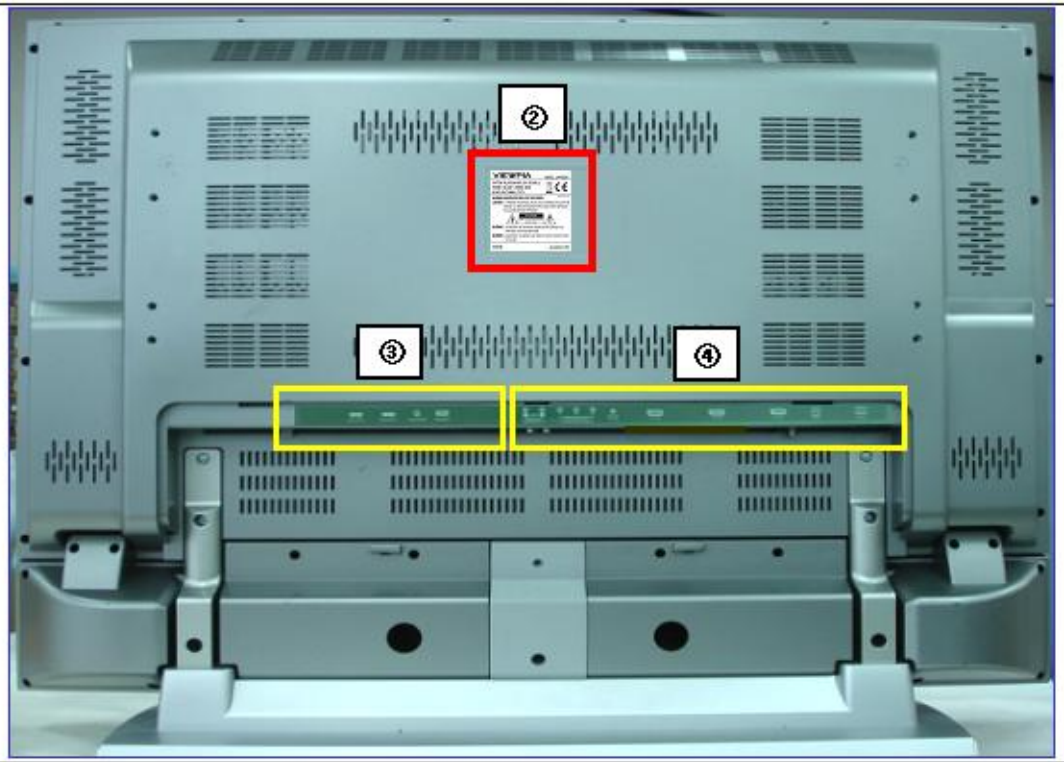
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		NIMP LABEL	I3840VA0041A	1	NIMP 150*150 REMOVAL ART 80	
②						
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Attach the BACK LABEL How to Assemble

Work	Attach the BACK LABEL	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006.05.19

Drawing of working process



Equipment & Tools

.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.
- **Attach the BACK LABEL properly.**

Working process

- After checking the exterior of the set and dirt, clean the set and attach the TAPE of the protection film on the front with replacing it.
- Attach the BACK LABEL with matching it to the groove of BACK COVER.
- Attach the DECORATION in sequence with matching the groove.

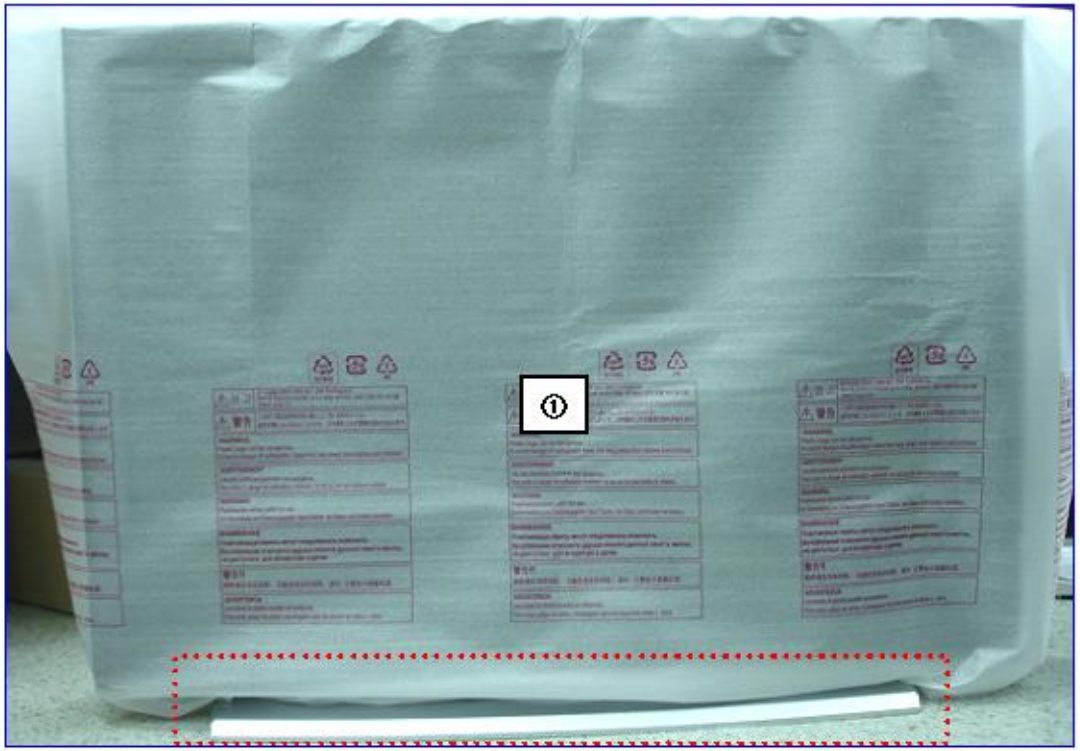
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		TAPE	TAPE0150001	4	P-625 ELECTRICAL #1350-1 15MM	
②		BACK LABEL	I3850VA0210B	1	40A1 SR90*90 INDTEK ASSEMBLED IN EU NIMP	
③		DECORATION	I3508V46001E	1	46A1 MAIN DVBT CI	
④		DECORATION	I3508V46002F	1	46A1 A/V HIEND BASIC	
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

LAMI-BAG Packing How to Assemble

Work	LAMI-BAG Packing	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006.05.19

Drawing of working process



Equipment & Tools

.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- After the exterior of set test, clean the set by AIR.
- Pack the set with the LAMI-BAG like the picture.

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		BAG	I3880VA0004A	1	LAMI 37 HDPE 1400*1200*T0,5	
②						
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

Attach the BOX LABEL How to Assemble

Work	Attach the BOX LABEL	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process

Equipment & Tools

.Non-conductor gloves

Check points & how to check

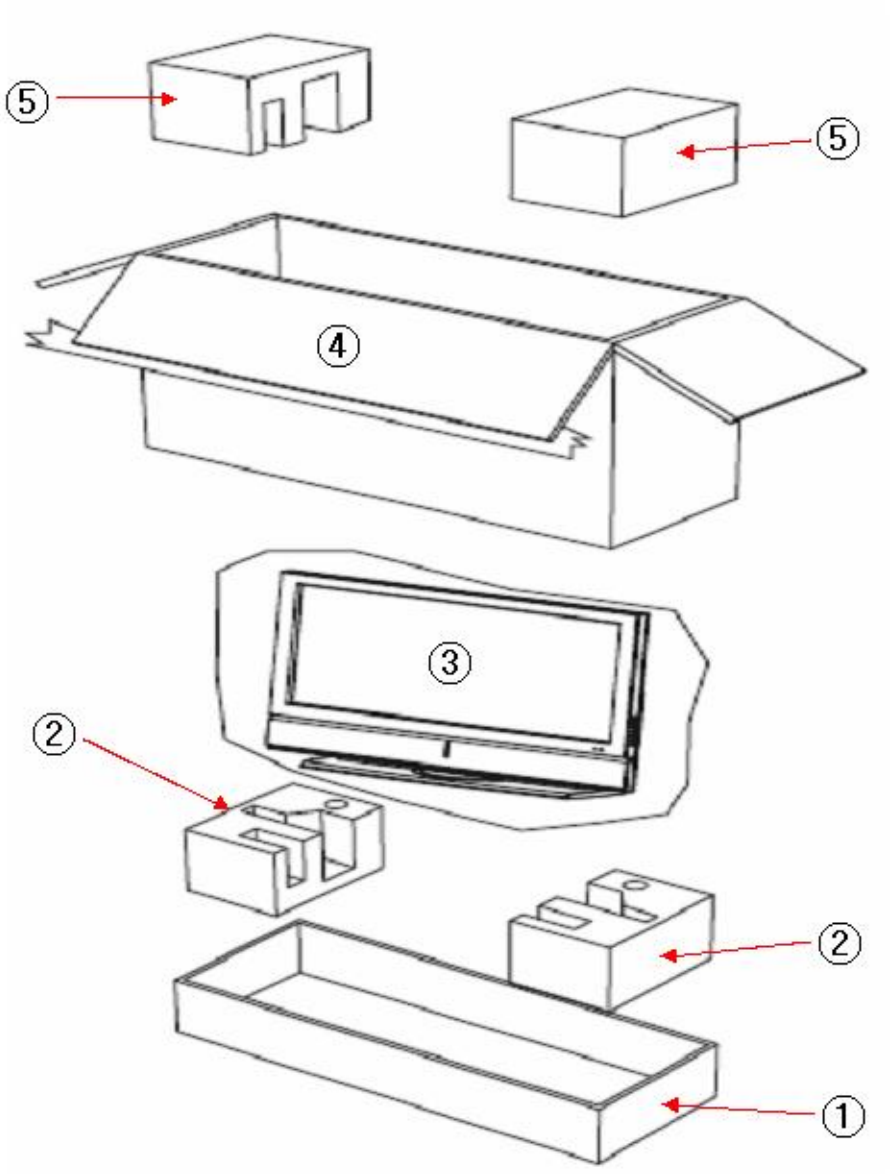
☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- Attach the NIMP BOX LABEL on the front, back & right, left of CARTON BOX like picture.

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		BOX LABEL	I3840VA0049A	2	VIEWPIA NIMP BOX LABEL	
②						
③						
④						
⑤						
⑥						

<PACKING 1>

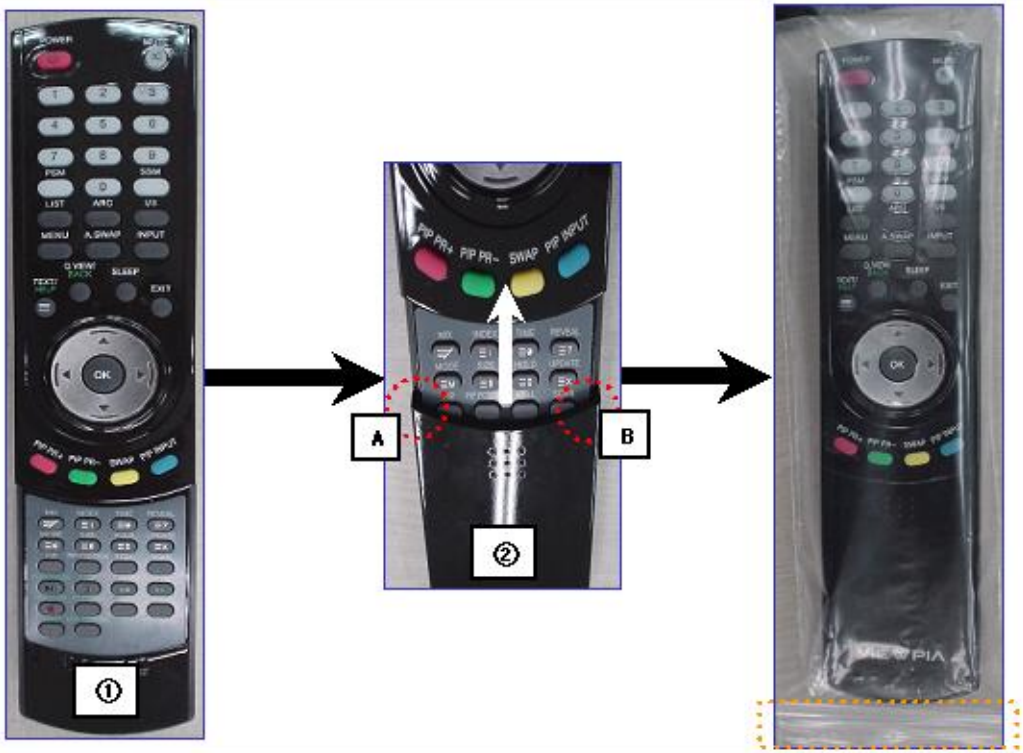


N O	Product	PART No.	Q'ty	Standard
①	CARTON BOX	I3890V00194A	1	40A1 D/W BROWN INDTEK BOTTOM
②	PACKING	I3920V40001B	1	40A1 BOTTOM EPS
③	LCD TV	-	1	-
④	CARTON BOX	I3890V00191A	1	40A1 D/W BROWN INDTEK ASSEMBLED IN EU
⑤	PACKING	I3920V40001A	1	40A1 TOP EPS

Model : LN-40IEA3 Part # : SET Assembly

ACCESSORY Packing	How to Assemble			
Work	ACCESSORY Packing	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

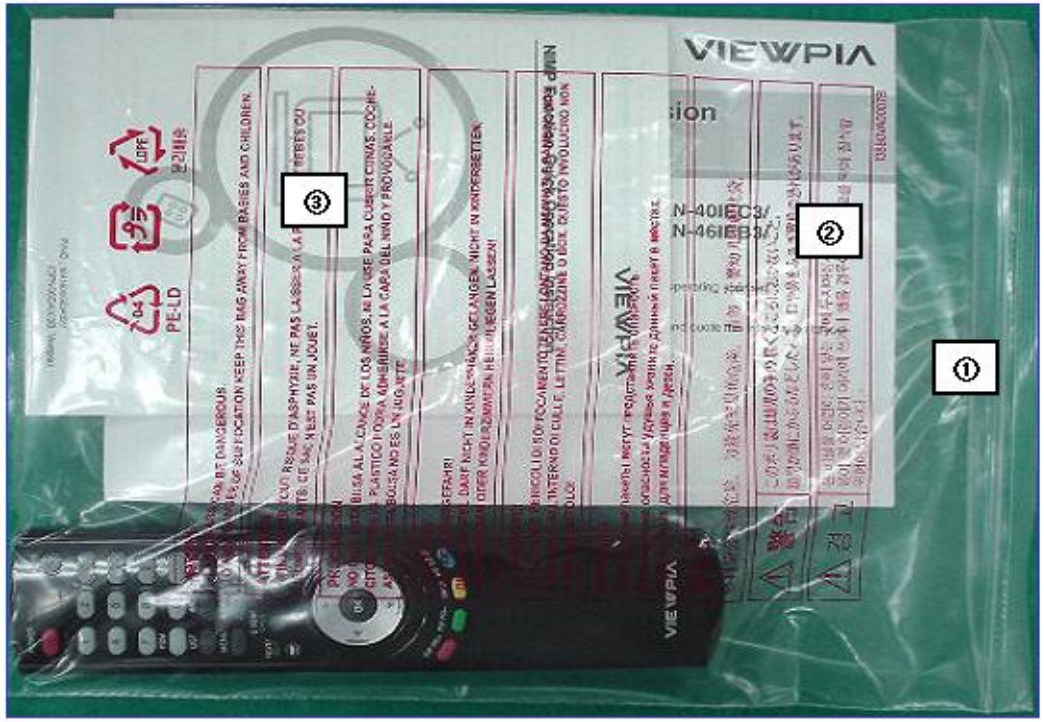
- Pull out the REMOCON from the VINYL BAG.
- After putting the COVER to the REMOCON (A) ~ (B) like the picture, push it up.
- Put the REMOCON into the VINYL BAG.

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		REMOTE CONTROL	I6710VEU005B	1	LN-46IEA3 VIEWPIA	
②		REMOTE CONTROL COVER	I6710VIN001B	1	ABS BK VIEWPIA	
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

ACCESSORY Packing	How to Assemble			
Work	ACCESSORY Packing	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- Put the MANUAL & REMOCON in to the BAG with the print part of BAG faced upward.

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		BAG	I3880VA0007A	1	VINYL ACCESSORY LDPE 350*280*0.05	
②		MANUAL	MAN06GDP026	1	LN-40/46IEA3 Analogue + NIMP VIEWPIA 2nd	
③		MANUAL	MAN06GDP027	1	NIMP SIMPLE FUNTION MANUAL 1st	
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

ACCESSORY Packing	How to Assemble			
Work	ACCESSORY Packing	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process

Equipment & Tools

.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- After put the D-SUB CABLE, POWER CORD & BATTERY in sequence into the BAG, seal up the BAG.

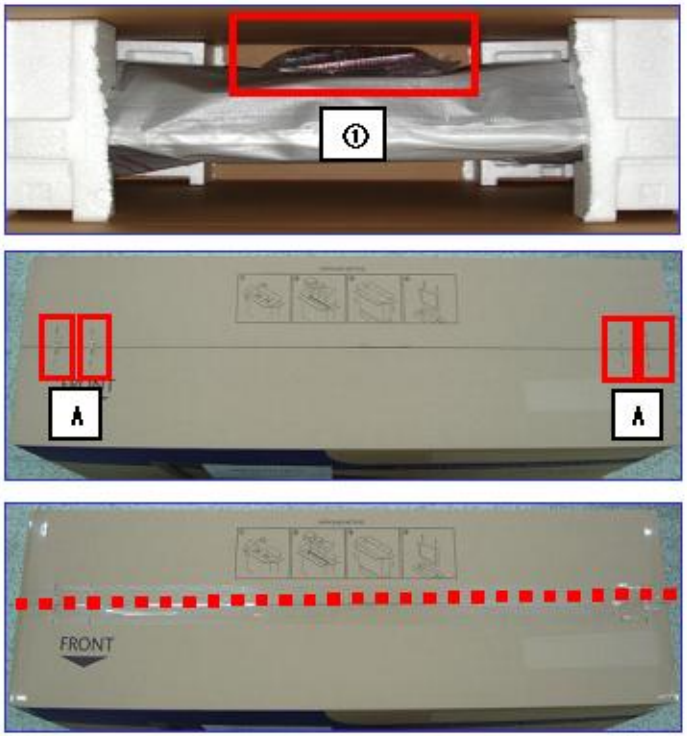
NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		BATTERY	BAT15AAA001	2	BATTERY AAA 1.5V	
②		POWER CORD	PCORD18GE01	1	SP-023,IS-14 1.8M 220V/10A BK(Germany), I-SHENG	
③		CABLE	CA0DSUF1500	1	D-SUB CABLE 15P 1.5M	
④		USB MEMORY STICK	USBMEM256FM	1	USB MEMORY MOMORIVE PRO+ 256MB	
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

PACKING 2 How to Assemble

Work	PACKING 2	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006. 05. 19

Drawing of working process



Equipment & Tools

.Non-conductor gloves

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

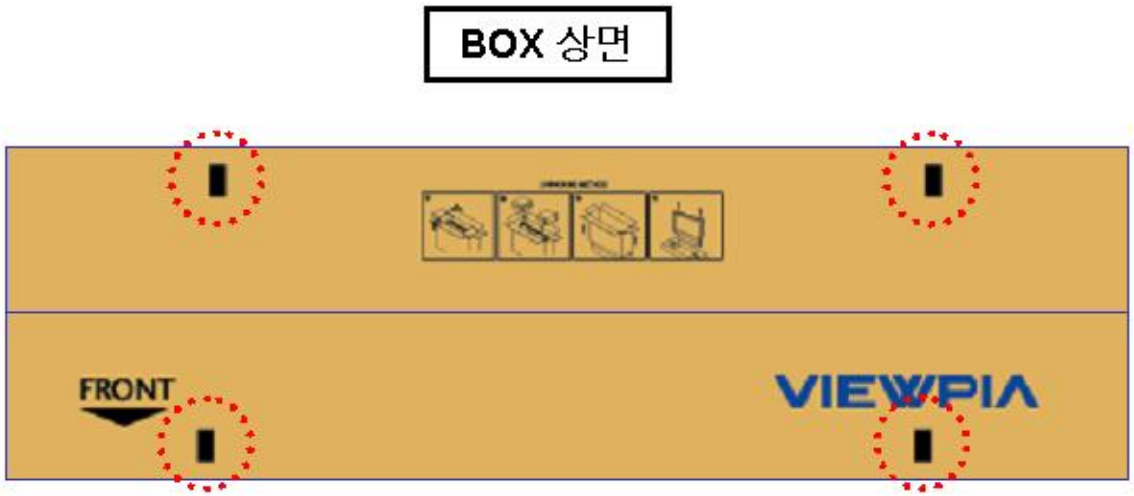
- Put the ACCESSORY ASS'Y behind the set.
- After closing the BOX, staple (A) part.
- Tape the dotted line.
- Attach the LABEL per Model like the picture.
- When attaching the LABEL, check if the S/N is same as TV's.

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①		ACCESSORY ASS'Y	A1C6L46ZY00B	1	VIEWPIA LN-40/46IEA3 ACCESSORY ASS'Y	
②		BOX LABEL	I3850VE0002A	1	70*70, WHITE, BASIC	
③						
④						
⑤						
⑥						

Model : LN-40IEA3 Part # : SET Assembly

PACKING 3 How to Assemble				
Work	PACKING 3	PART#	LN-40IEA3	
LINE SPEED		REV.	1	Date of design 2006.05.19

Drawing of working process



Equipment & Tools

.Non-conductor gloves .Banding machine

Check points & how to check

☞ Wear WRIST STRAP & Non-conductor gloves.
◇ Remove dirt from the product.
Check the condition of working.
If no problem, go on next process.

Working process

- Band the CARTON BOX twice by following the dotted line of the BOX upside like the picture.

NO	Circuit No.	Product	PART No.	Q'ty	Standard	Equipment & Tools
①						
②						
③						
④						
⑤						
⑥						